

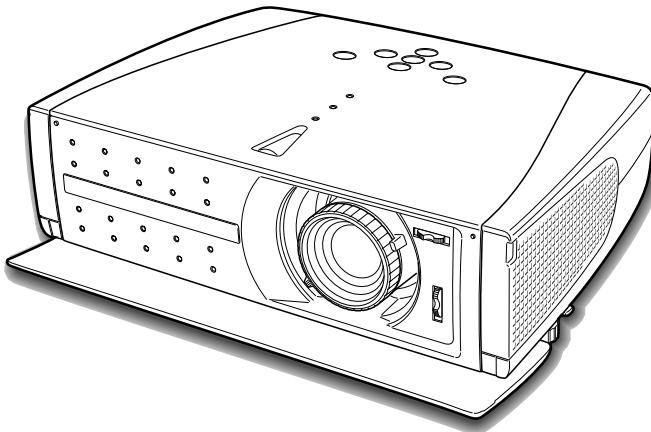
FILE NO.

SERVICE MANUAL Multimedia Projector Model No. PLV-Z2

(U.S.A., Canada, Europe
Asia, Africa, U.K.)

ORIGINAL VERSION

Chassis No. M4K-Z200
(PLV-Z2)



NOTE: Match the Chassis No. on the unit's back cover with the Chassis No. in the Service Manual.

If the Original Version Service Manual Chassis No. does not match the unit's, additional Service Literature is required. You must refer to "Notices" to the Original Service Manual prior to servicing the unit.

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PRODUCT CODE

1 122 125 00 PLV-Z2 (M4KA)
1 122 126 00 PLV-Z2 (P4KA)
1 122 126 02 PLV-Z2 (P4KC)

REFERENCE NO. SM5110585-00

■ Technical Specifications

Technical Specifications


Projector Type	Multimedia Projector
Dimensions (W x H x D)	14.13" x 3.82" x 10.79" (359mm x 97mm x 274mm) (not including raised portions)
Net Weight	9.0 lbs (4.1 kg)
LCD Panel System	0.7" wide TFT Active Matrix type, 3 panels
Panel Resolution	1280 x 720 dots
Number of Pixels	2,764,800 (1280 x 720 x 3 panels)
Color System	PAL, SECAM, NTSC, NTSC4.43, PAL-M, and PAL-N
High Definition TV Signal	480i, 480p, 575i, 575p, 720p, 1035i, and 1080i
Scanning Frequency	H-sync. 15 ~ 80 KHz, V-sync. 50 ~ 100 Hz
Projection Image size (Diagonal)	Adjustable from 31" to 200"
Projection Lens	F 2.04 ~ 2.54 lens with f 21.5 mm ~ 27.7 mm with manual zoom and focus
Throw Distance	3.9' ~ 20.0' (1.2 m ~ 6.1 m)
Projection Lamp	135 W
Video Input Jacks	RCA Type x 4 (Video, Y, Pb/Cb, Pr/Cr) and Mini DIN 4 pin x 1 (S-Video)
Computer/Video Input Terminal	DVI-I Terminal (Digital/Analog) (HDCP compatible)
Service Port Connector	Mini DIN 8 pin x 1
Feet Adjustment	0° to 11.8°
Voltage and Power Consumption	AC 100 ~ 120 V (2.4 A Max. Ampere), 50 / 60 Hz (The U.S.A. and Canada) AC 200 ~ 240 V (1.3 A Max. Ampere), 50 / 60 Hz (Continental Europe and The U.K.)
Operating Temperature	41 °F ~ 95 °F (5 °C ~ 35 °C)
Storage Temperature	14 °F ~ 140 °F (-10 °C ~ 60 °C)
Remote Control	Power Source : AA, UM3 or R06 Type x 2 Operating Range : 16.4' (5m) / ±30° Dimensions : 1.85" x 1.18" x 6.26" (47mm x 30mm x 159mm) Net Weight : 4.4oz (125g) (including batteries)
Accessories	Owner's Manual AC Power Cord Remote Control and Batteries Video Cable

- The specifications are subject to change without notice.
- LCD panels are manufactured to the highest possible standards. Even though 99.99% of the pixels are effective, a tiny fraction of the pixels (0.01% or less) may be ineffective by the characteristics of the LCD panels.

■ Safety Instructions

■ SAFETY PRECAUTIONS

WARNING:

The chassis of this projector is isolated (COLD) from AC line by using the converter transformer. Primary side of the converter and lamp power supply unit circuit is connected to the AC line and it is hot, which hot circuit is identified with the line () in the schematic diagram. For continued product safety and protection of personnel injury, servicing should be made with qualified personnel.

The following precautions must be observed.


- 1: An isolation transformer should be connected in the power line between the projector and the AC line before any service is performed on the projector.
- 2: Comply with all caution and safety-related notes provided on the cabinet back, cabinet bottom, inside the cabinet or on the chassis.
- 3: When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as, control knobs, adjustment covers or shields, barriers, etc.

DO NOT OPERATE THIS PROJECTOR WITHOUT THE PROTECTIVE SHIELD IN POSITION AND PROPERLY SECURED.

- 4: Before replacing the cabinet cover, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.

Before returning any projector to the customer, the service personnel must be sure it is completely safe to operate without danger of electric shock.

■ PRODUCT SAFETY NOTICE

Product safety should be considered when a component replacement is made in any area of the projector. Components indicated by mark  in the parts list and the schematic diagram designate components in which safety can be of special significance. It is, therefore, particularly recommended that the replacement of the parts must be made by exactly the same parts.

■ SERVICE PERSONNEL WARNING

Eye damage may result from directly viewing the light produced by the Lamp used in this equipment. Always turn off Lamp before opening cover. The Ultraviolet radiation eye protection is required during this servicing.

Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages(20~25kV) at its starts.

Since the lamp is very high temperature during units operation. Replacement of the lamp should be done at least 45 minutes after the power has been turned off, to allow the lamp cool-off.

Lamp Replacement

Lamp Replacement

When the life of the projection lamp of this projector draws to an end, the LAMP REPLACE indicator lights yellow. If this indicator lights yellow, replace the lamp with a new one promptly.

This indicator lights yellow when the life of the projection lamp draws to an end.

Top Control

POWER
WARNING
LAMP REPLACE



CAUTION

Allow a projector to cool, for at least 45 minutes before you open the Lamp cover. The inside of the projector can become very hot.

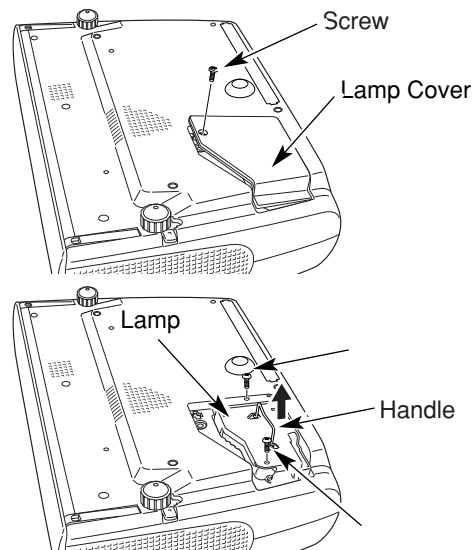


CAUTION

For continued safety, replace with a lamp of the same type. Do not drop a lamp or touch a glass bulb! The glass can shatter and may cause injury.

Follow these steps to replace the lamp.

- 1 Turn off the projector and disconnect the AC plug. Allow the projector to cool for at least 45 minutes.
- 2 Turn over the projector. Loosen the screw with a screwdriver, and remove the lamp cover.
- 3 Loosen 2 screws of the lamp with a screwdriver and pull out the lamp by grasping the handle.
- 4 Replace the lamp with a new one and tighten the 2 screws back into position. Make sure that the lamp is set properly. Replace the lamp cover and tighten the screw.
- 5 Connect the AC power cord to the projector and turn on the projector.
- 6 **Reset the Lamp replace counter.**
See "Lamp Replace Counter" on the next page.



ORDER REPLACEMENT LAMP

Replacement lamp can be ordered through your dealer. When ordering a projection lamp, give the following information to the dealer.

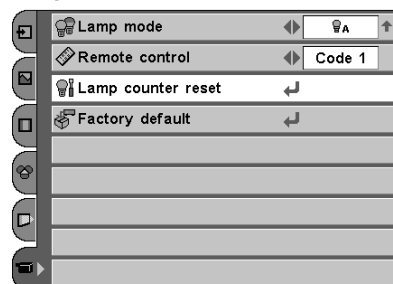
- **Model No. of your projector** : **PLV-Z2**
- **Replacement Lamp Type No.** : **POA-LMP69**
(Service Parts No. 610 309 7589)

Lamp Replacement Counter

Be sure to reset the lamp replace counter after the lamp is replaced. When the lamp replace counter is reset, the LAMP REPLACE indicator stops lighting.

- 1 Turn the projector on, press the MENU button, and the On-Screen Menu will appear. Select the Setting Menu with the Point Up/Down button and press the Point Right button to enter the sub-menu.
- 2 Select the Lamp counter reset item and then press the SELECT button. The message "Lamp replace counter Reset?" is displayed. Choose [Yes] and then press the SELECT button.
- 3 Another confirmation dialog box appears and choose [Yes] to reset the Lamp replace counter.

Lamp counter reset



NOTE

- Do not reset the Lamp replace counter without implementation of lamp replacement. Be sure to reset the Lamp replace counter only after replacing the lamp.

How to check lamp used time

The LAMP REPLACE indicator will light when the total lamp used time reaches 3,000 hours. This is to indicate that lamp replacement is required.

The total lamp used time is calculated by using the below expression;

Total lamp used time = $T_{eco} + T_{normal} \times (1.5)$

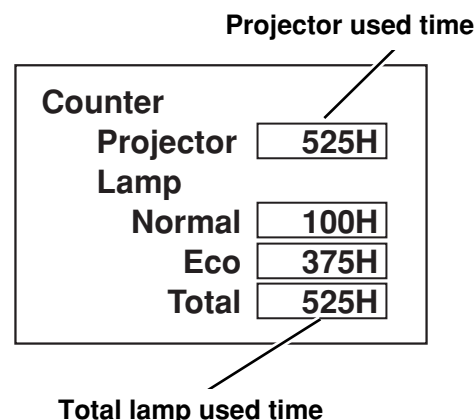
T_{eco} : used time in the Eco mode

T_{normal} : used time in the Eco mode

You can check the lamp replace counter following to below procedure.

1 Press and hold the **POWER ON-OFF** button on the projector or the remote control unit for more than 20 seconds.

2 The projector used time and lamp used time will be displayed on the screen briefly.



LAMP HANDLING PRECAUTIONS

This projector uses a high-pressure lamp which must be handled carefully and properly. Improper handling may result in accidents, injury, or create a fire hazard.

- Lamp lifetime may differ from lamp to lamp and according to the environment of use. There is no guarantee of the same lifetime for each lamp. Some lamps may fail or terminate their lifetime in a shorter period of time than other similar lamps.
- If the projector indicates that the lamp should be replaced, i.e., if the LAMP REPLACE indicator lights up, replace the lamp with a new one IMMEDIATELY after the projector has cooled down.
(Follow carefully the instructions in the Lamp Replacement section of this manual.) Continuous use of the lamp with the LAMP REPLACE indicator lighted may increase the risk of lamp explosion.
- A Lamp may explode as a result of vibration, shock or degradation as a result of hours of use as its lifetime draws to an end. Risk of explosion may differ according to the environment or conditions in which the projector and lamp are being used.

























IF A LAMP EXPLODES, THE FOLLOWING SAFETY PRECAUTIONS SHOULD BE TAKEN.

If a lamp explodes, disconnect the projector's AC plug from the AC outlet immediately. Contact an authorized service station for a checkup of the unit and replacement of the lamp. Additionally, check carefully to ensure that there are no broken shards or pieces of glass around the projector or coming out from the cooling air circulation holes. Any broken shards found should be cleaned up carefully. No one should check the inside of the projector except those who are authorized trained technicians and who are familiar with projector service. Inappropriate attempts to service the unit by anyone, especially those who are not appropriately trained to do so, may result in an accident or injury caused by pieces of broken glass.

■ Indicators and Projector Condition


■ Indicators and Projector Condition


Check the Indicators for projector condition.

Indicators			Projector Condition
POWER red/green	WARNING red	LAMP REPLACE yellow	
			The Main On/Off switch is off or the AC power cord is unplugged.
			The projector is preparing for stand-by and the front cover is closed. Or the projection lamp is being cooled down. The projector cannot be turned on until cooling is completed.
			The projector is ready to be turned on with the POWER ON-OFF button.
			The projector is operating normally.
			The projector is in the Power management mode.
			The temperature inside the projector is abnormally high. The projector cannot be turned on. When the projector is cooled down enough and the temperature returns to normal, the POWER indicator lights red and the projector can be turned on. (The WARNING indicator keeps flashing.) Check and clean the Air filter.
			The projector has been cooled down enough and the temperature returns to normal. When turning on the projector, the WARNING indicator stops flashing. Check and clean the air filter.
			The projector detects an abnormal condition and cannot be turned on. Unplug the AC power cord and plug it again to turn on the projector. If the projector is turned off again, disconnect the AC power cord and contact the dealer or the service center for service and checkup. Do not leave the projector on. It may cause electric shock or a fire hazard.

 ... lights green.

 ... flashes green.

 ... lights red.

 ... flashes red.

 ... off

* When the life of the projection lamp draws to an end, the LAMP REPLACE indicator lights yellow. When this indicator lights yellow, replace the projection lamp with a new one promptly. Reset the Lamp replace counter after replacement of the lamp.

■ Warning Indicator

■ Warning Indicator

The WARNING indicator shows the state of the function which protects the projector. Check the state of the WARNING indicator and the POWER indicator to take proper maintenance.

The projector is shut down and the WARNING indicator is flashing red

When the temperature inside the projector exceeds the normal temperature, the projector is automatically shut down to protect the inside of the projector. The POWER indicator is flashing and the projector is being cooled down. When the temperature inside the projector returns to normal, the POWER indicator lights red and the projector can be turned on.

NOTE

- After the temperature inside the projector returns to normal, the WARNING indicator still continues to flash. When the projector is turned on again, the WARNING indicator stops flashing.

Then check the items below.

- ✓ Did you provide appropriate space for the projector to be ventilated? Check the installing condition to see if ventilation slots are not blocked.
- ✓ Is the projector not installed near the ventilation duct of air-conditioning equipment which may be hot? Install the projector away from the ventilation duct of air-conditioning equipment.
- ✓ Is the air filter clean? Clean the air filter or replace it with a new one.

The projector is shut down and the WARNING indicator lights red

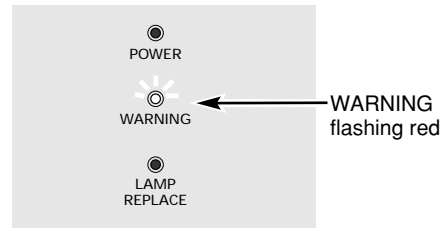
When the projector detects an abnormal condition, it is automatically shut down to protect the inside and the WARNING indicator lights red. In this case, disconnect the AC power cord and reconnect it, and then turn the projector on once again for check. If the projector is turned off again and the WARNING indicator lights red, disconnect the AC power cord and contact the service station for check and repair.



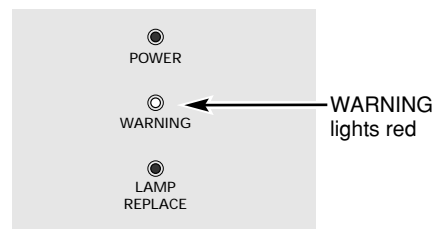
CAUTION

DO NOT LEAVE THE PROJECTOR WITH THE AC POWER CORD CONNECTED UNDER THE ABNORMAL CONDITION. IT MAY RESULT IN FIRE OR ELECTRIC SHOCK.

TOP CONTROL



TOP CONTROL



■ Cleaning

■ Cleaning the Air Filter

The air filter prevents dust from accumulating on the surface of the optical elements inside the projector. Should the air filter become clogged with dust particles, it will reduce cooling fans' effectiveness and may result in internal heat build up and adversely affect the life of the projector. Clean the air filter following the steps below.

- 1 Turn off the projector and disconnect the AC power cord from the AC outlet.
- 2 Turn over the projector and remove the air filter by pulling the latches on both edges upward.
- 3 Remove dust and dirt with a soft brush. Be careful not to damage the air filter and do not clean the air filter with water. When there is much dust and dirt on the air filter, replace it with a new one. (See below for replacing the air filter.)
- 4 Put the air filter back into position. Make sure that the air filter is properly and fully inserted.



CAUTION

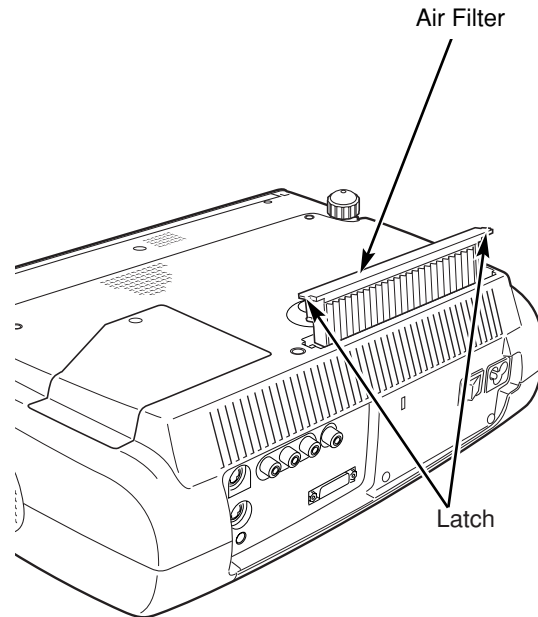
Do not operate the projector with the air filter removed. Dust may accumulate on the LCD panel and the projection mirror degrading picture quality.

Do not put small parts into the air intake vents. It may result in malfunction of the projector.

RECOMMENDATION

We recommend avoiding dusty/smoky environments when operating the projector. When using under dusty or smoky conditions, dust may accumulate on a lens, LCD panels, or optical elements inside the projector. This condition may degrade the quality of a projected image.

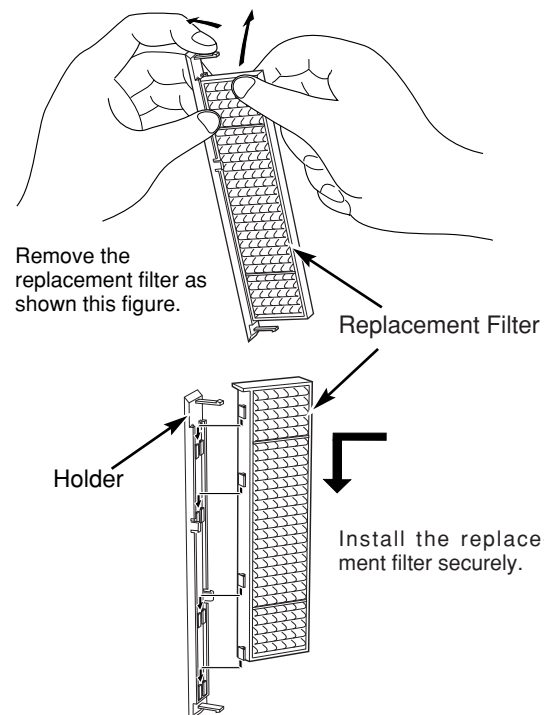
When the above symptoms are noticed, contact your authorized dealer or service station for proper cleaning.



■ Replacing the Air Filter

When there is much dust and dirt on the air filter, replace it with a new one following the steps below.

- 1 After removing the air filter from the projector as described above, remove the replacement filter from the holder.
- 2 Holds the air filter with both hands, and remove the replacement filter by pulling it up.
- 3 Install a new replacement filter and put the air filter back into the projector.



ORDER REPLACEMENT FILTER

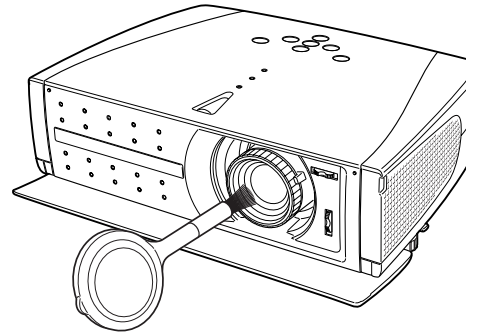
Replacement filter can be ordered through your dealer or service station.

● Replacement Filter Part No. : 610 312 0249

■ Cleaning the Projection Lens

Follow these steps to clean the projection lens.

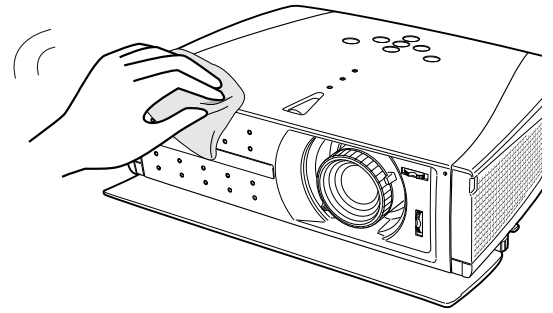
- 1** Disconnect the AC power cord before cleaning.
- 2** Softly wipe the projection lens with a cleaning cloth that contains a small amount of non-abrasive camera lens cleaner, or use lens cleaning paper or a commercially available air blower to clean the lens. Avoid using an excessive amount of cleaner. Abrasive cleaners, solvents, or other harsh chemicals might scratch the surface.
- 3** When the projector is not in use, replace the lens cover.



■ Cleaning the Projection Cabinet

Follow these steps to clean the projector cabinet.

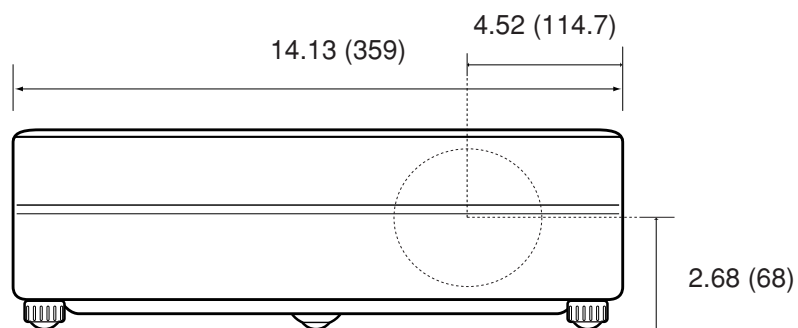
- 1** Disconnect the AC power cord before cleaning.
- 2** Softly wipe the projector body with a soft, dry cleaning cloth. When it is heavily soiled, use a small amount of mild detergent and finish with a soft, dry cleaning cloth. Avoid using an excessive amount of cleaner. Abrasive cleaners, solvents, or other harsh chemicals might scratch the surface.
- 3** When the projector is not in use, put the projector in the carrying case to protect it from dust and scratches.



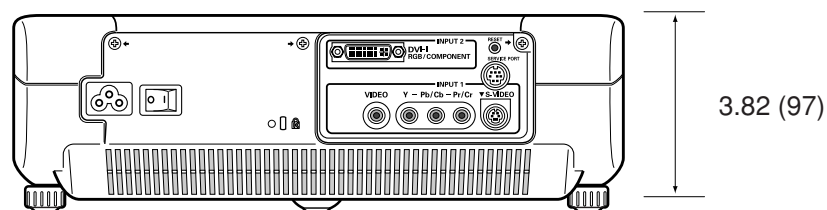
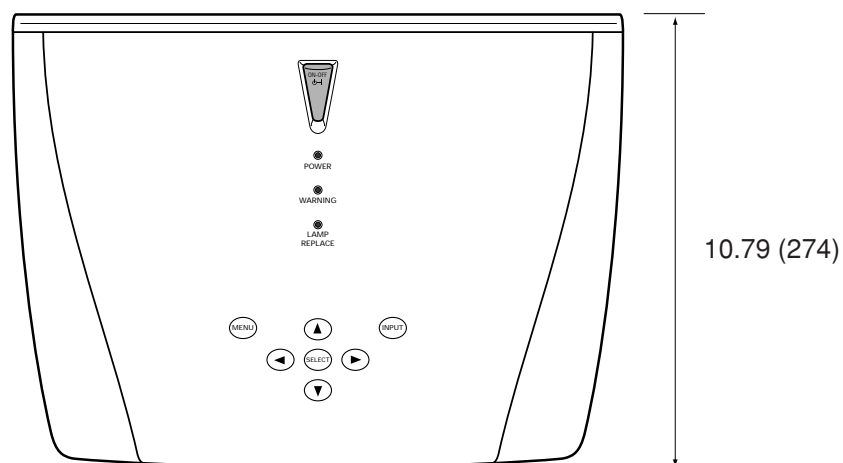
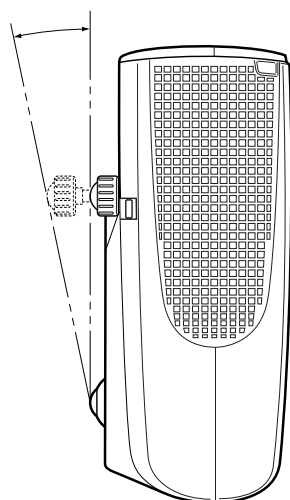
■ Dimensions

■ Dimensions

Unit : inch (mm)



11.8° (Max.)



■ Protections

This projector is equipped with the following protections to operate in safety. If the abnormality occurs inside the projector, it will turn off the projector by operating one of the following protections.

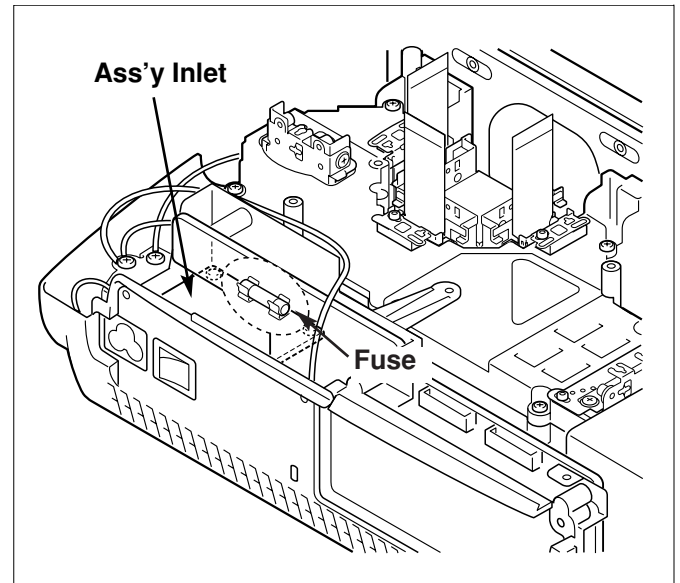
■ FUSE FOR CIRCUIT PROTECTION

The fuse is located on the ass'y-Inlet. When either the LAMP indicator or the READY indicator is not illuminated, fuse may be opened. Check the fuse as following steps.

1. Remove the ass'y-Inlet following to “Mechanical Disassemblies”.
2. Remove the fuse from fuse holder.
3. Check the resistance of fuse by using the tester.

To install the fuse, take reversed step in the above.

It should be used the specified fuse as parts list.

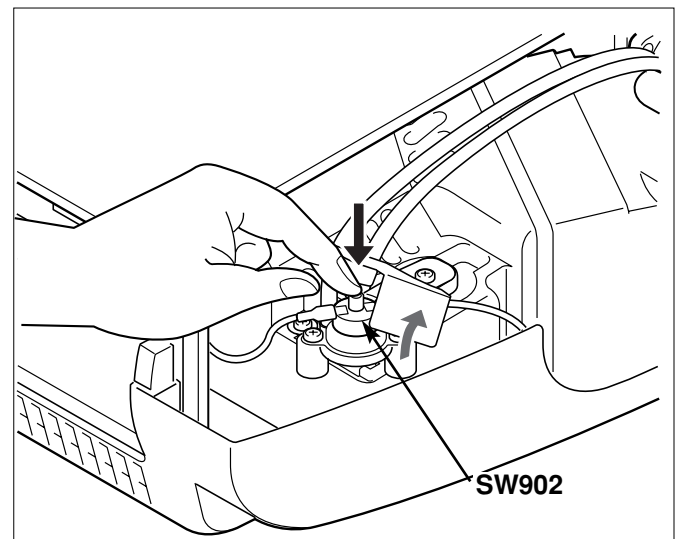


■ OVERHEATING PROTECTION (The temperature monitor system)

The temperature monitor system is provided to prevents damage of component parts inside the projector from overheat.

■ Thermostat Switch: SW902

This function (thermostat switch SW902) will not operate, while the temperature monitor is operating normally. If it has operated, it needs to be reset manually. Disconnect the AC cord first and investigate the cause of overheating. After servicing, reset the thermostat switch (SW902) as shown in a figure.



■ Mechanical Disassemblies

[Attention] This LCD projector is used the different kind of screw. The using correct screw is needed to prevent the damage.

1. CABINET - TOP REMOVAL

1. Remove 6 screws to take the Cabinet Top upward off.

Note: For fixing the Cabinet Top, its rib should be located in front of the spacer lens.

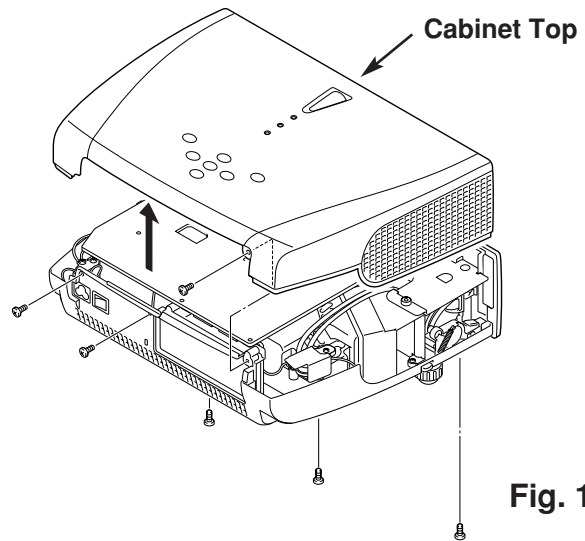
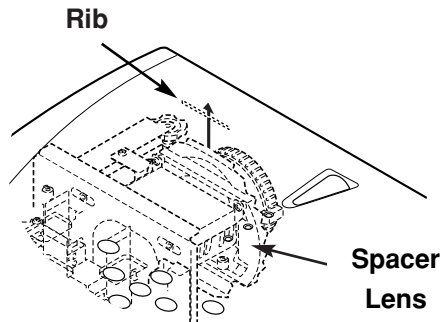


Fig. 1

2. CABINET - FRONT REMOVAL

1. Open the door.
2. Remove a screw to take the Cabinet Front off.

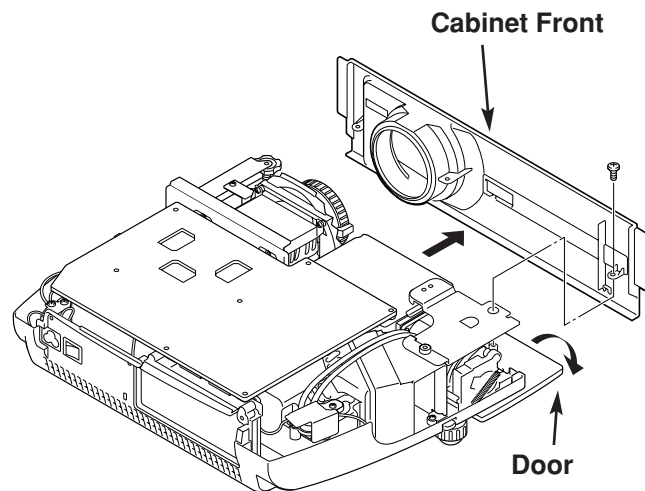


Fig. 2

3. MAIN BOARD AND THERMAL BARRIER PLATE REMOVAL

1. Remove 7 screws **A** to take the Main Board upward off.
2. Remove 2 screws **B** to take the thermal barrier plate upward off.

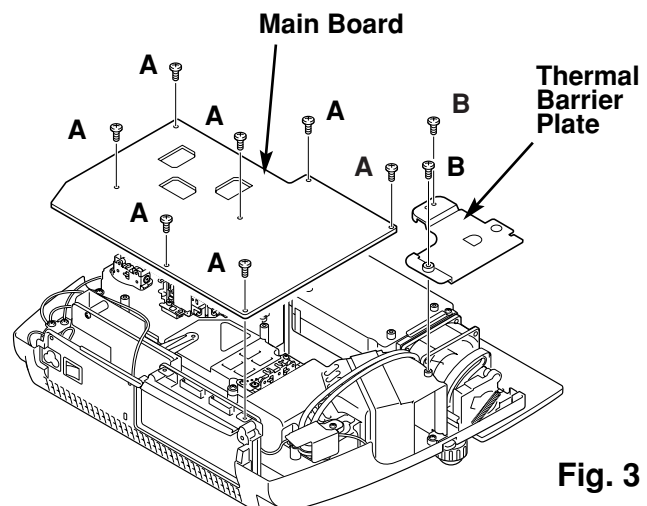


Fig. 3

4. DOOR ASS'Y REMOVAL

1. Remove 6 screws to take the Door Ass'y off.

Note: Can be removed Door itself. See below.

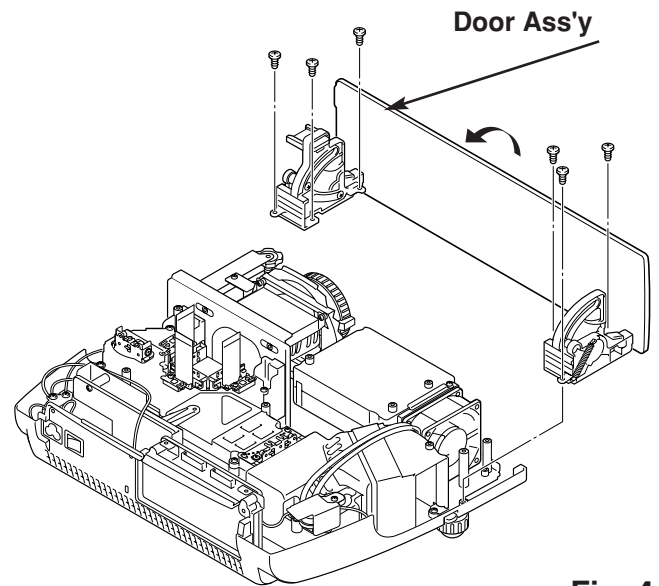


Fig. 4

5. DOOR LEG AND DOOR SWITCH BOARD REMOVAL

1. Remove a screw to take each leg off.
2. Slide the Door Switch Board out.

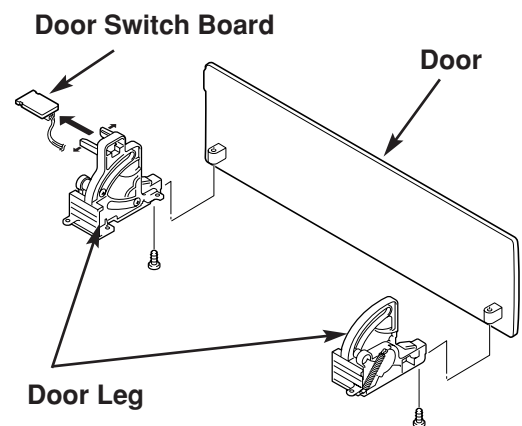


Fig. 5

6. AV BOARD REMOVAL

1. Remove 2 screws **A** to take the AV Ass'y (Board with Panel) upward off.
2. Remove 4 screws **B** to take the AV Board off from the AV Panel.

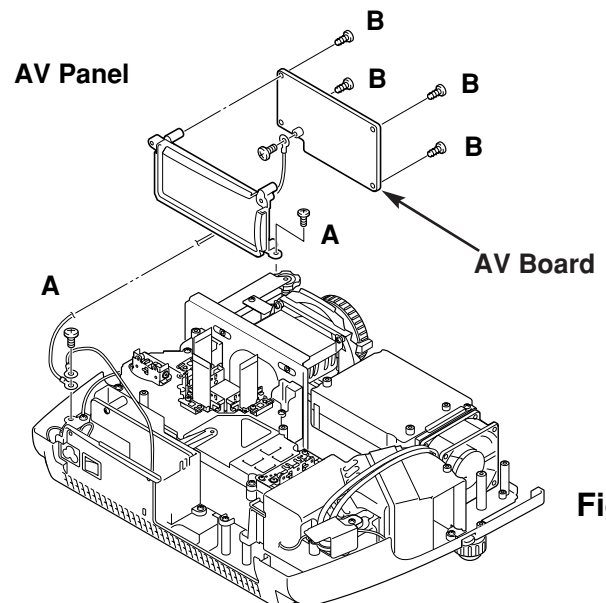


Fig. 6

7. LAMP BALLAST UNIT REMOVAL

1. Remove 4 screws **A** to take the Filter Holder off.
2. Remove 3 screws **B** to take the Filter Board off.
3. Remove 3 screws **C** to take the Inlet Board off.

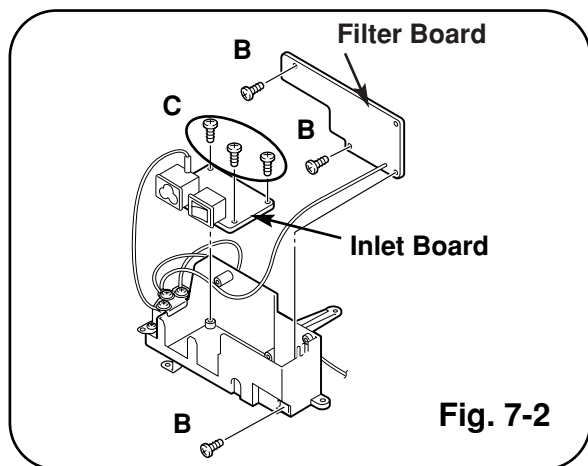


Fig. 7-2

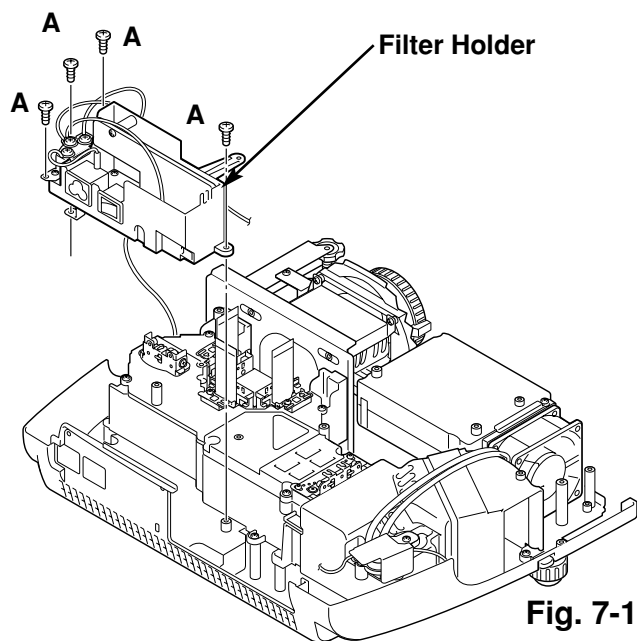


Fig. 7-1

8. OPTICAL UNIT AND FAN REMOVAL

1. Remove a screw **A** to take the Thermostat Switch upward off.
2. Remove a screw **B** to take the Lamp Socket off.
3. Remove 3 screws **C** to take the Fan Cover off.
4. Remove 8 screws **D** to take the Optical Unit off.
5. Remove 4 screws **E** to take the Fan (FAN903) off.

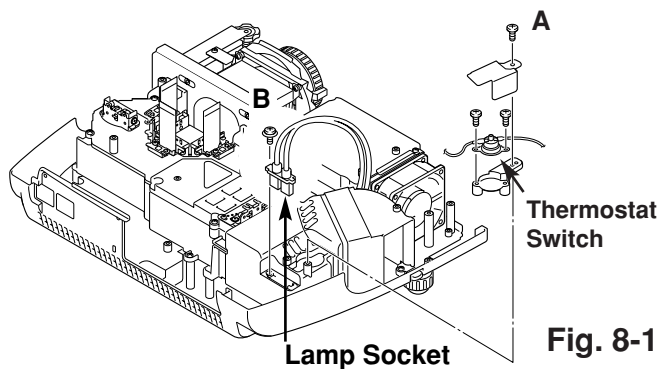


Fig. 8-1

Note: For fixing the Optical Unit, Spacer Lens should be located in front of the rib of Cabinet Bottom.

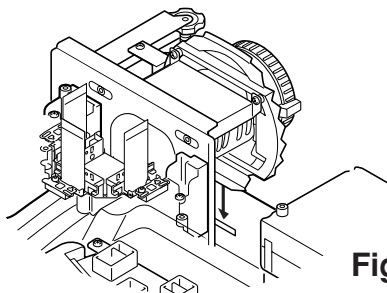


Fig. 8-3

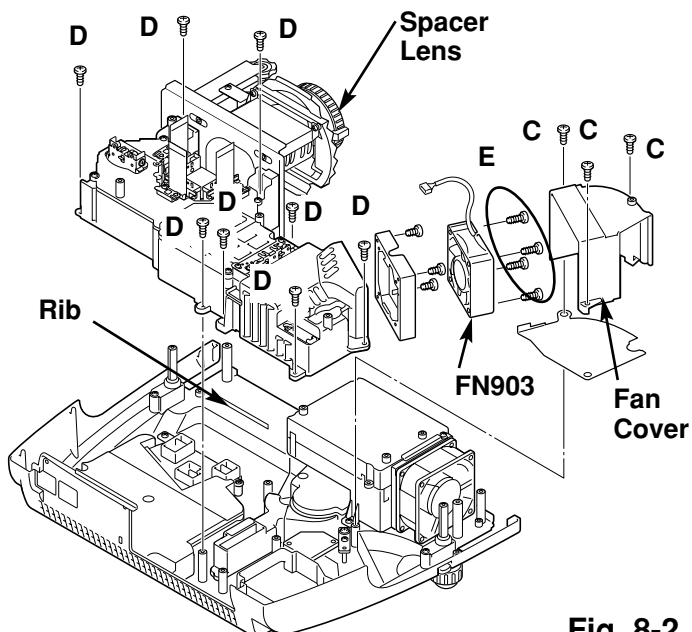
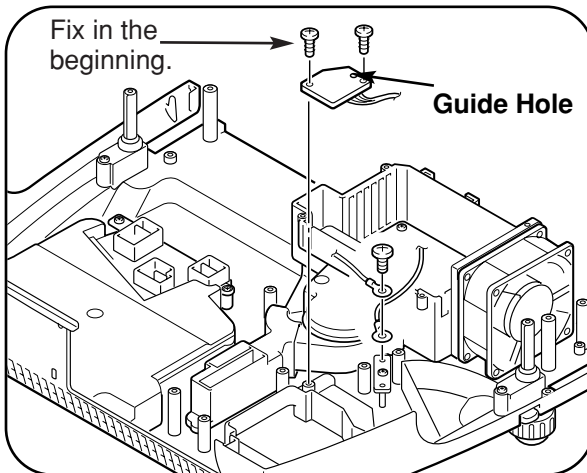


Fig. 8-2

9. POWER BOARD REMOVAL

1. Remove 2 screws **A** to take the Lamp SW Board off.
2. Remove a screw **B** and 4 screws **C** to open the Power Board Cover and take the R/C Board off.
3. Remove 4 screws **D** to take the Power Board off.

Note: For fixing Lamp SW Board, insert the guide to the guide hole of Lamp SW Board and fix the screw of below figure in the beginning.



Note: Remove the Lamp Cover before fixing the Lamp SW board to prevent the damage of Lamp SW board.

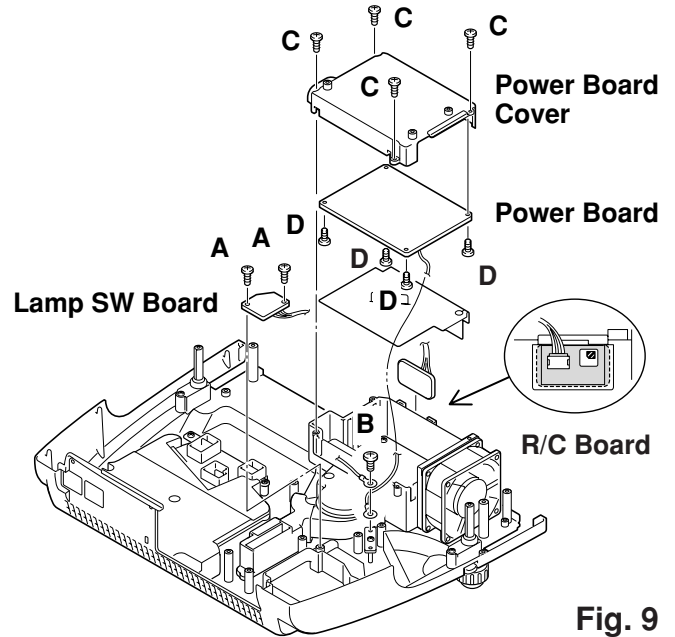


Fig. 9

10. LAMP BALLAST AND FAN REMOVAL

1. Remove 2 screws **A** to take the Lamp Ballast Unit upward off.
2. Remove 3 screws **B** to take the Power Board Holder off.
3. Remove 4 screws **C** to take the Fan (FN901) off.

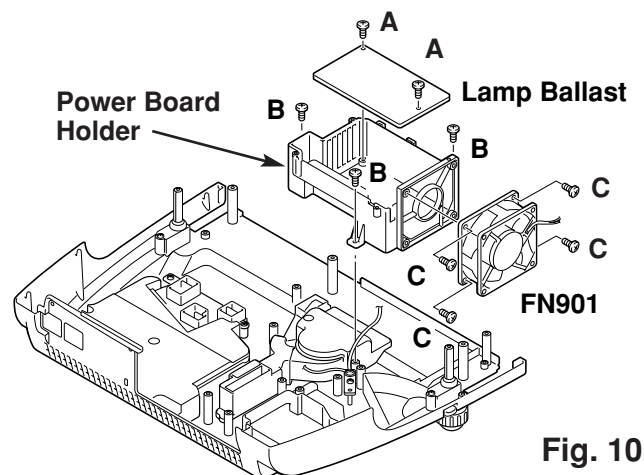


Fig. 10

11. FANS REMOVAL

1. Remove 2 screws **A** and 5 screws **B** to take the Fan Cover off.
2. Remove a screw **C** to take the Sensor Board off from the Fan Cover.
3. Remove 2 screws **D** to take the Duct Cover-A off.
4. Remove 2 screws **E** to take the Duct Cover-B and Fan (FN902) off.
5. Remove a screw **F** to take Fan (FN904) or Fan (FN905) off.

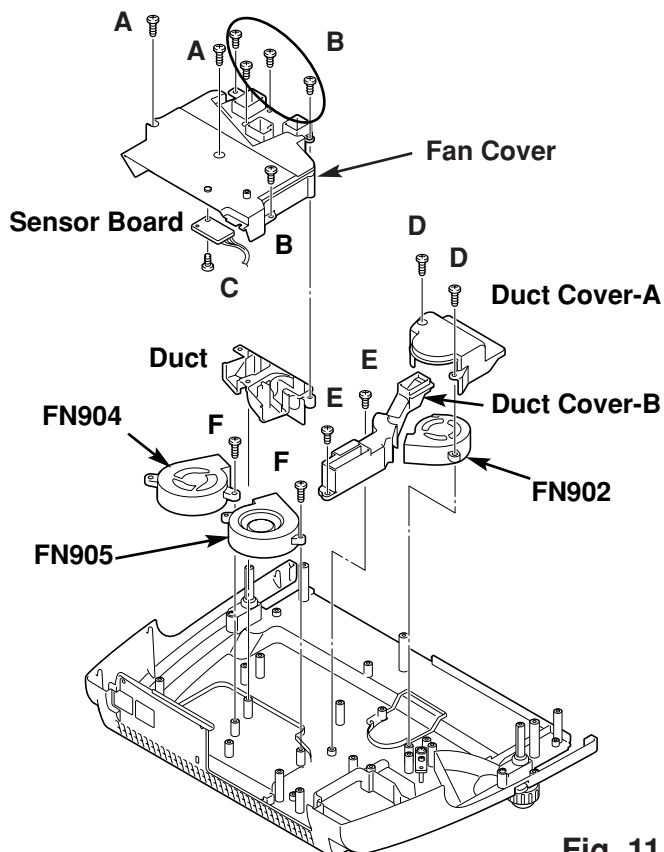
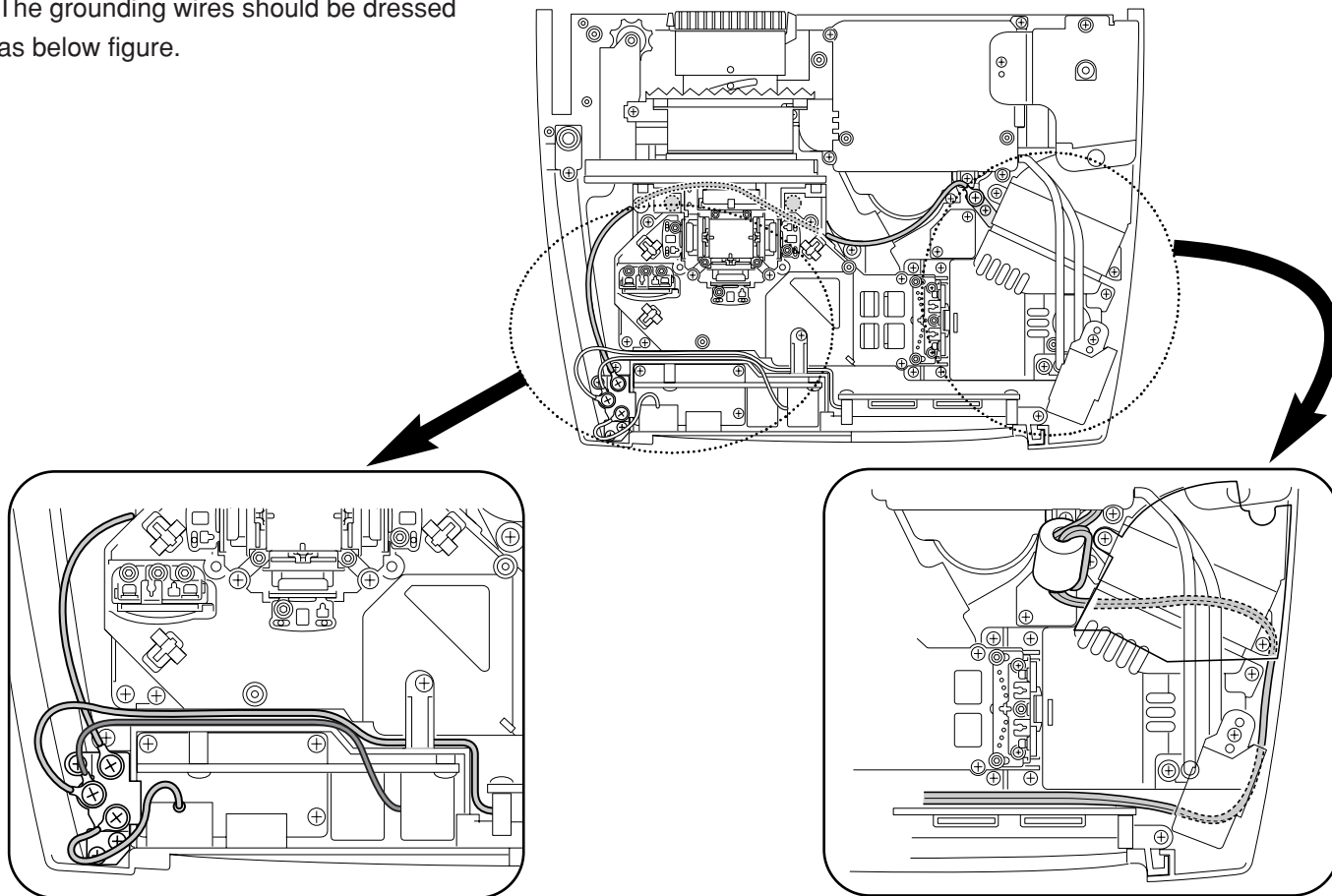


Fig. 11

12. DRESSING GROUNDING WIRE

The grounding wires should be dressed as below figure.



■ Optical Parts Disassemblies

Before Taking this procedure, remove Cabinet Top and Main board following to the “Mechanical Disassemblies”.

Disassembly requires a 2.0mm hex wrench and a screwdriver.

1. PROJECTION LENS REMOVAL

1. Remove 2 screws **A** to slide the Lens Spacer and remove 4 screws **B** to take the Projection Lens off.

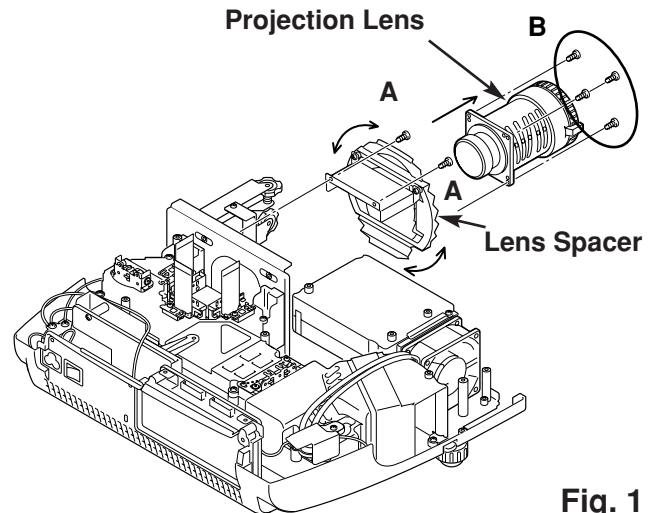


Fig. 1

2. INTEGRATOR LENS REMOVAL

1. Remove 2 screws and pull the Integrator Lens Ass'y upward.
2. Remove the Stopper and bend four hooks and then take the Lens off from the Holder.

Note:

Should be placed the lens as the rugged surface side of it comes to the holder side.

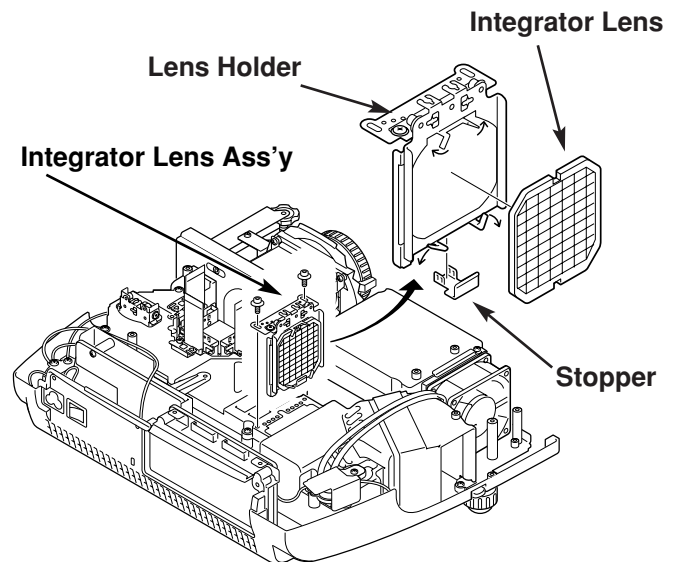


Fig. 2

3. RELAY LENS REMOVAL

1. Remove 2 screws **A** and pull the Relay Lens Ass'y upward.
2. Remove 2 screws **B** to take the Lens off from the Holder.

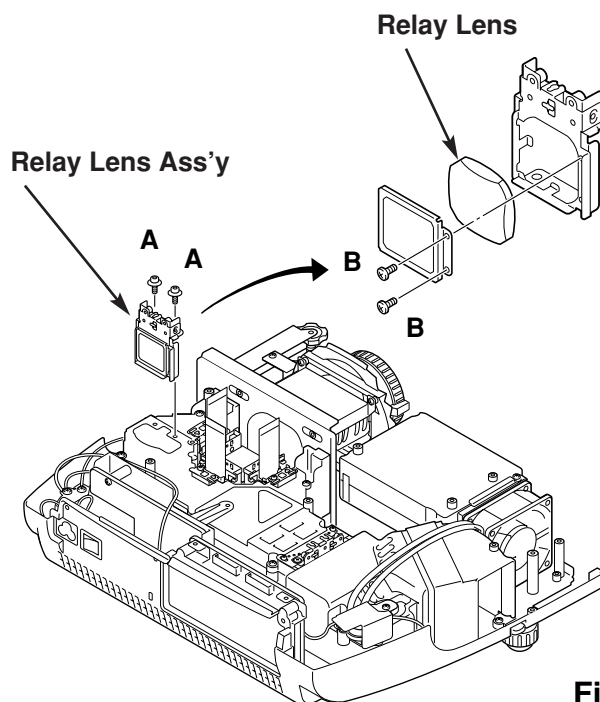


Fig. 3

4. POLARIZED GLASS-IN REMOVAL

1. Remove each screw and pull the Polarized Glass-In Ass'y upward.
2. Unhook the stoppers and take the glass off upward.

Note:

Should be placed the glass as the film attached side come to the prism side.

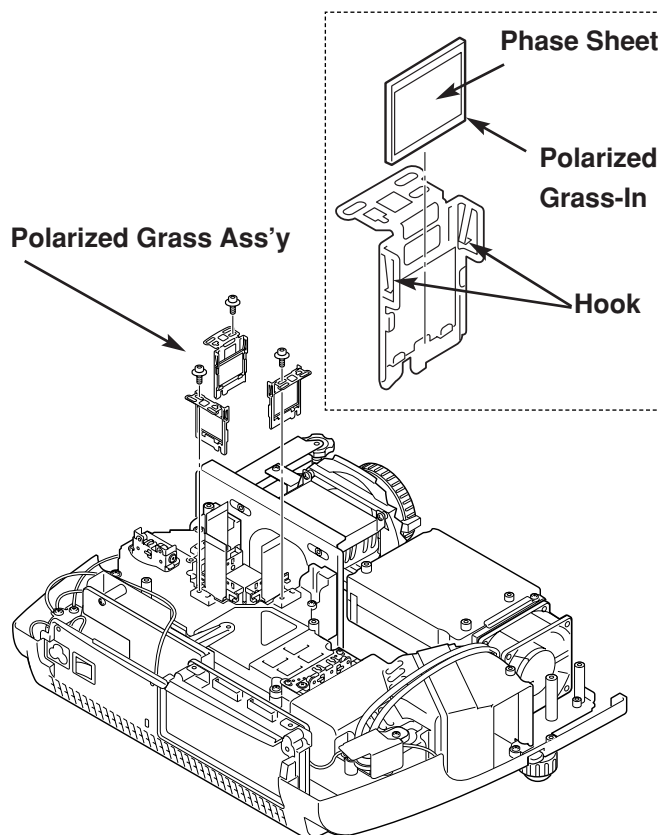


Fig. 4

5. POLARIZED GLASS-OUT AND WIDE VIEW PLATE REMOVAL

1. Remove 4 screw **A** and take the LCD Panel/Prism Ass'y upward from the Optical Unit.
2. Remove each screw **B** and take the glass off upward.

Note:

1. Fix the plate that the mark is located to left and upper.
R,G: Red marking, **B**: Blue marking
2. Should be replaced the glass as the film attached side comes to the LCD panel side.

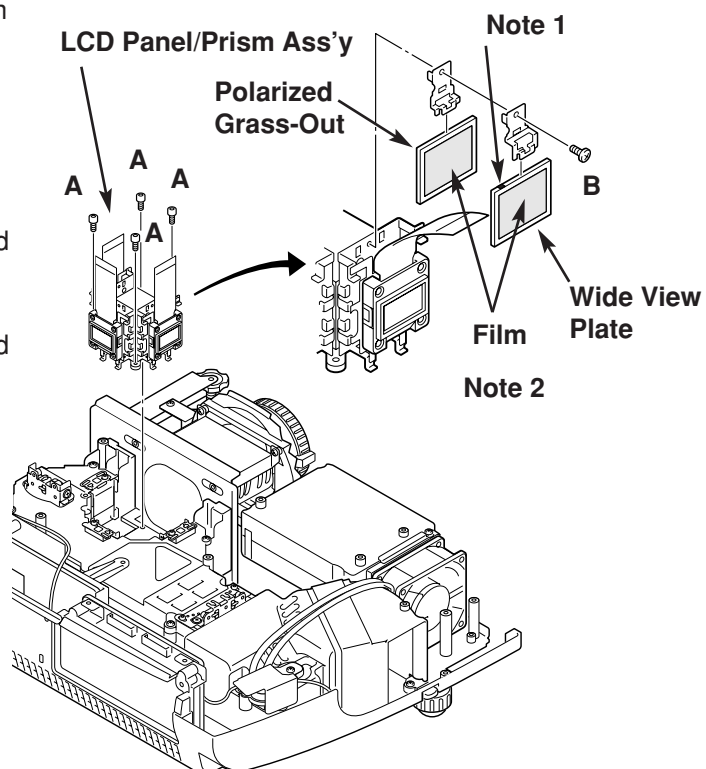


Fig. 5

6. OPTICAL UNIT TOP REMOVAL

1. Remove Cabinet Top, Cabinet Front, Main Board, AV Board and Filter Ass'y.
2. Remove 8 screws to take the Optical Unit Top off upward.

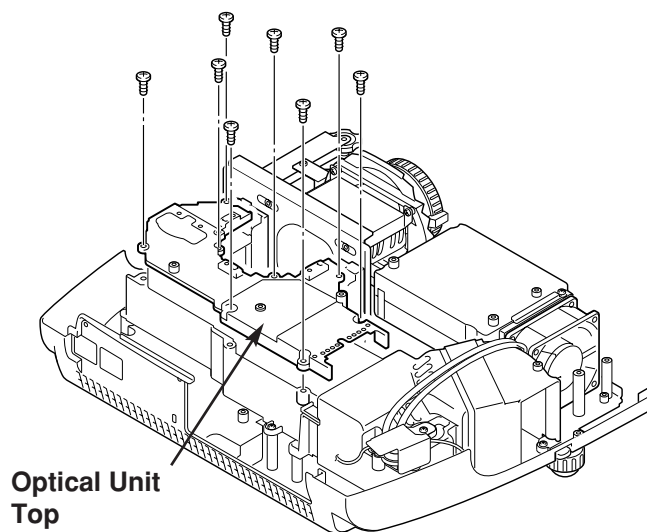
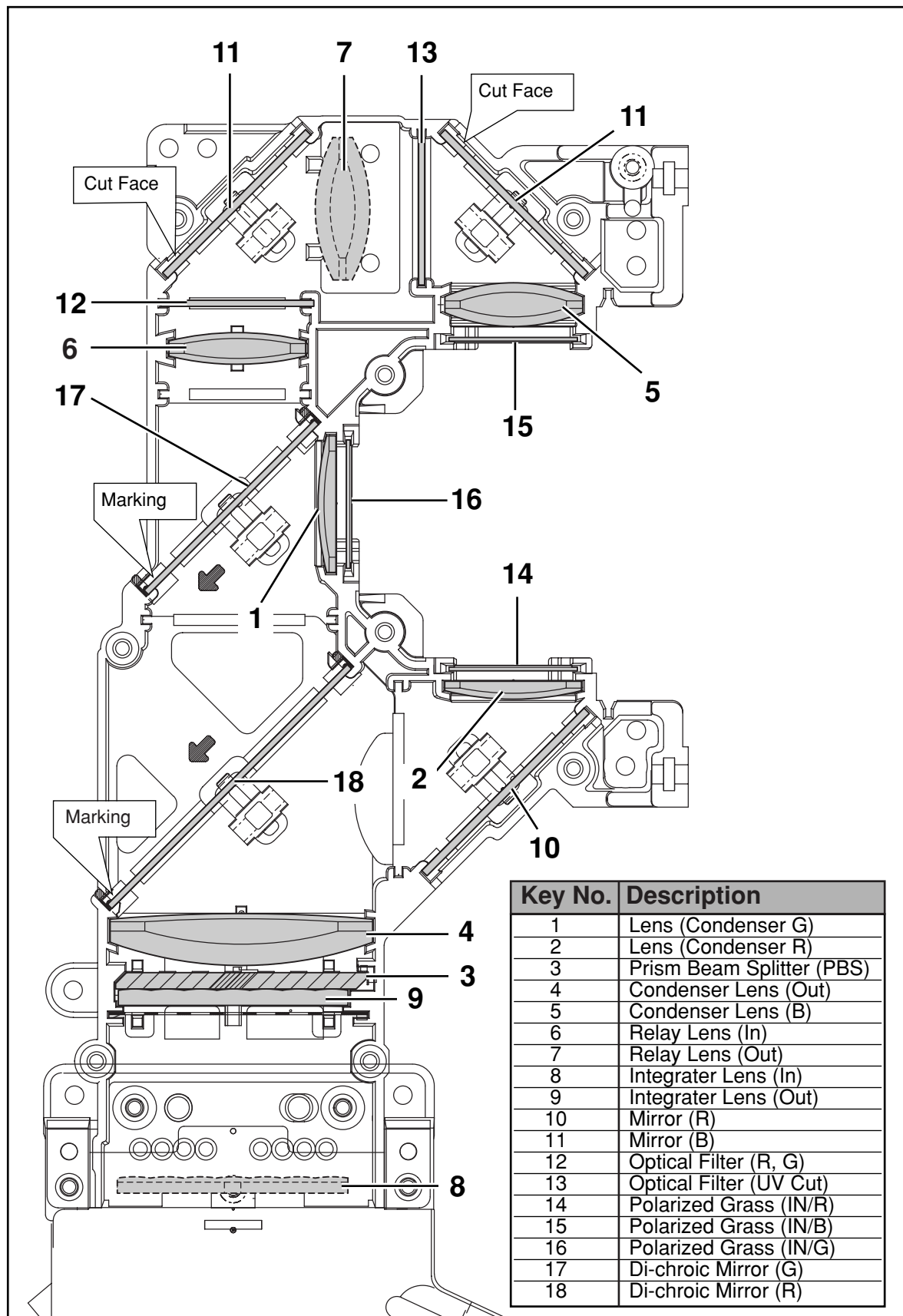


Fig. 6

7. LOCATIONS IN OPTICAL UNIT

When mounting or assembling the optical parts in the optical unit, the parts must be mounted specified location as shown in figure below.



■ LCD Panel/Prism Ass'y Replacement

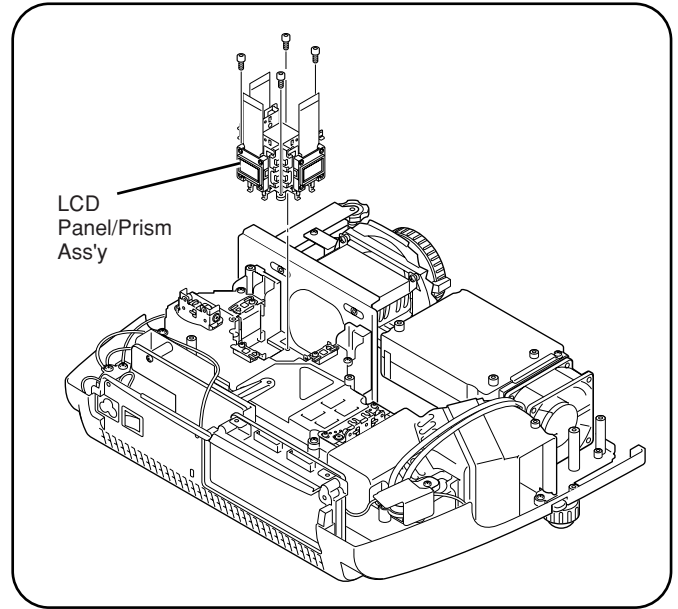
1. LCD PANEL/PRISM ASS'Y REMOVAL

1. Remove Cabinet Top and Main Board.
2. Remove 4 screws by a 2.0mm hex wrench to take the Panel/Prism Ass'y off from the Optical Unit.

Note: Do not replace the LCD panel separately otherwise it can not obtain proper picture. Do not touch the prism, the LCD panel and the electrode of flexible cable.

2. LCD PANEL/PRISM ASS'Y ATTACHMENT

1. Tighten 4 screws by a 2.0mm hex wrench to fix the Panel/Prism Ass'y to the Optical Unit.



IMPORTANT NOTICE on LCD Panel/Prism Ass'y Replacement

LCD panels used for this model can not be replaced separately. Do not disassemble the LCD Panel/Prism Ass'y. These LCD panels are installed with precision at the factory. When replacing the LCD panel, should be replaced whole of the LCD panels and prism ass'y at once.

After replacing LCD Panel/Prism ass'y, please check the following adjustments.

- Check the "Condenser Lens Adjustment" and "Relay Lens Adjustment" following to chapter "Optical Adjustment".
- Check the "White Balance Adjustment" and "Common Centre Adjustment" following to chapter "Electrical Adjustment".
- Check the white uniformity on the screen.

If you find the color shading, please adjust the white uniformity by using the proper computer and "Color Shading Correction" software supplied separately. The software can be ordered as follows;

COLOR SHADING CORRECTION

Service Parts No. 645 056 6288 or 645 066 7428

■ Adjustments After Parts Replacement

● : Adjustment necessary ○ : Check necessary

		Disassembly / Replaced Parts										
		LCD/ Prism Ass'y	Condenser Lens	Relay Lens	Polarized glass			Wide View			Power Board	Main Board
					R	G	B	R	G	B		
Optical Adjustments	Condenser Lens Adjustment	○	●									
	Relay Lens Adjustment	○		●								
	Contrast Adjustment											
	R-Contrast adjustment	○			●			●				
	G-Contrast adjustment	○				●			●			
	B-Contrast adjustment	○					●			●		
Electrical Adjustments	Fan Minimum Adjustment										●	●
	Signal Center Adjustment											●
	Reference Adjustment											●
	PC Pedestal Adjustment											●
	PC Gain Adjustment											●
	480p Pedestal Adjustment											●
	480p Gain Adjustment											●
	480i Gain Adjustment											●
	Video Gain Adjustment											●
	Common Voltage Adjustment	●										●
	50% Luminance Adjustment	●										●
	White Balance Adjustment	○										●

■ Optical Adjustment

Before taking optical adjustments below, remove the Cabinet Top and Main Board following to the “Mechanical Disassemblies”

Adjustments require a 2.0mm hex wrench and a slot screwdriver. When you adjust Integrator lens or Relay lens adjustment, you need to disconnect some connectors and FPC cables of LCD panels on the main board.

Note:

Do not disconnect connectors on the main board, because the projector can not turn on or operate properly for adjustment.

1. CONTRAST ADJUSTMENT

[Before Adjustment]

- Input a 100% of black raster signal.

[R/G/B-CONTRAST ADJUSTMENT]

1. Loosen a screw **A** on the polarized glass mounting base which you intend to adjust.
2. Turn the polarized glass mounting base as shown in **Fig. 1** to obtain the darkest brightness on the screen.
3. Tighten the screw **A** to fix the polarized glass mounting base.

Repeat steps 1 to 3 for remaining polarized glasses.

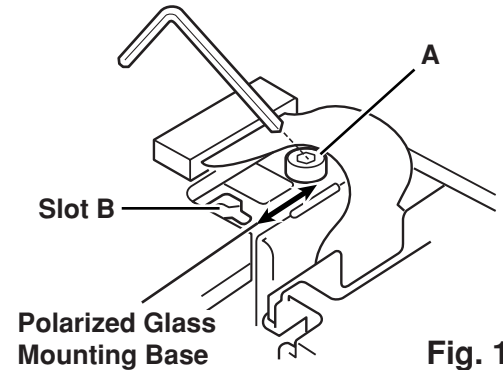


Fig. 1

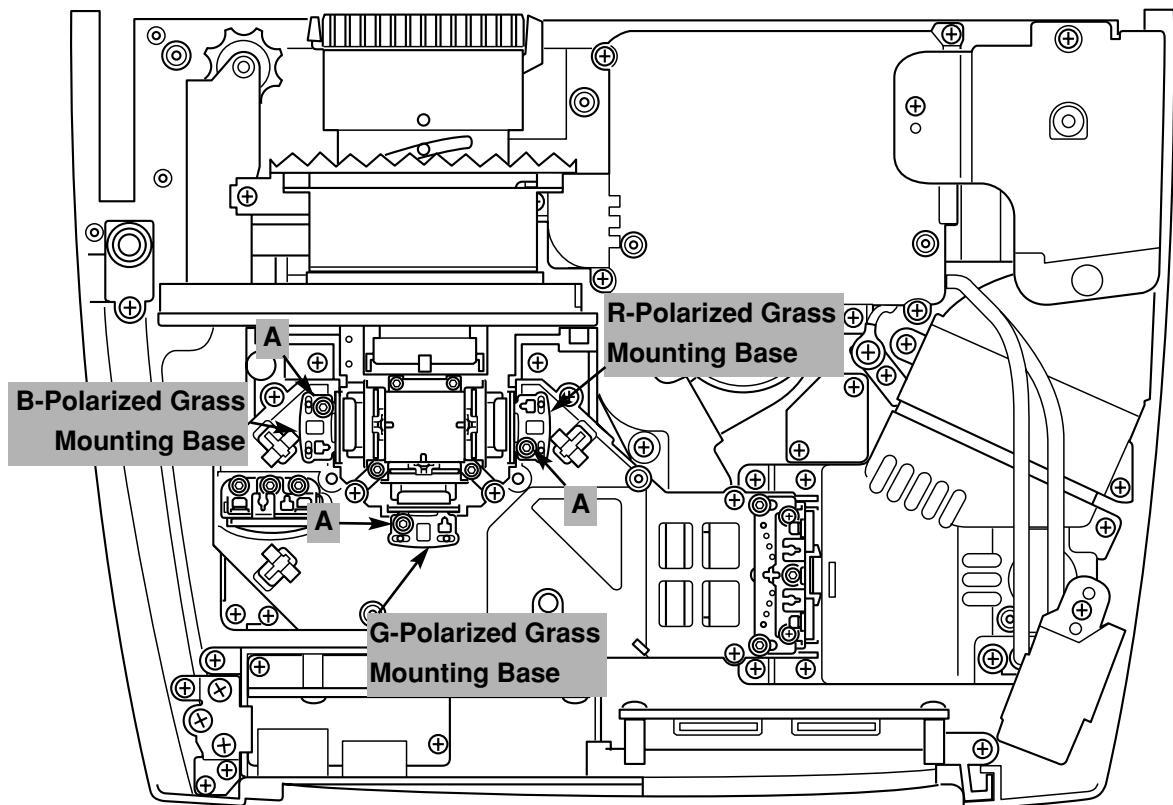
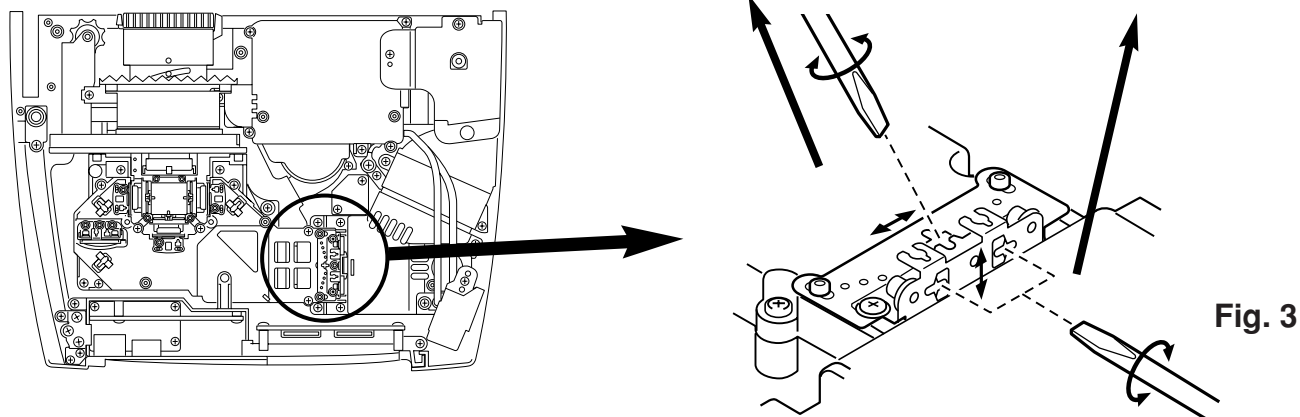


Fig. 2

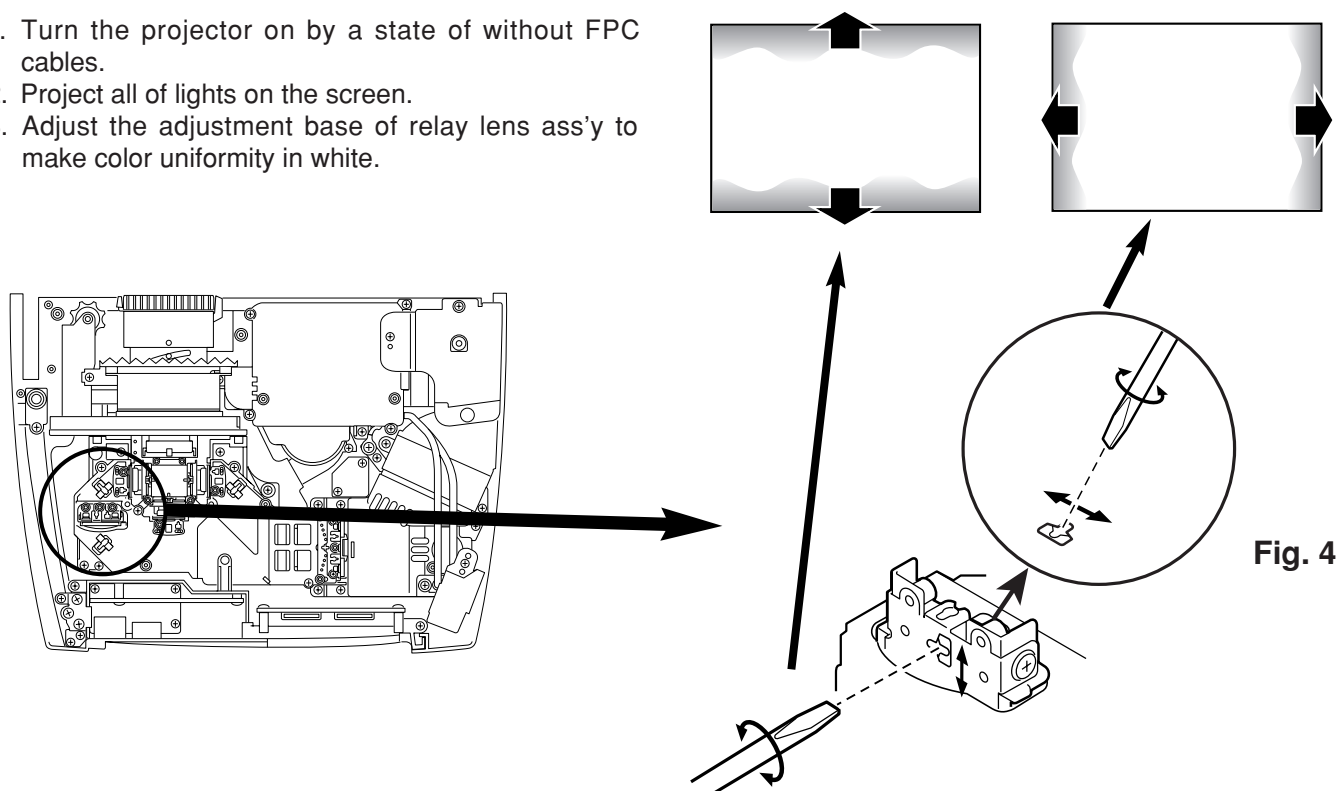
2. INTEGRATOR ADJUSTMENT

1. Turn the projector on by a state of without FPC cables.
2. Project all of lights on the screen.
3. Adjust the adjustment base of integrator lens ass'y to make color uniformity in white.



3. RELAY ADJUSTMENT

1. Turn the projector on by a state of without FPC cables.
2. Project all of lights on the screen.
3. Adjust the adjustment base of relay lens ass'y to make color uniformity in white.



■ Electrical Adjustment

■ SERVICE ADJUSTMENT MENU OPERATION

■ To enter service mode

To enter service mode press the "MENU" and "INPUT" buttons on the projector simultaneously and hold for 2 seconds. As shown in a figure, a service mode display appears on a screen.

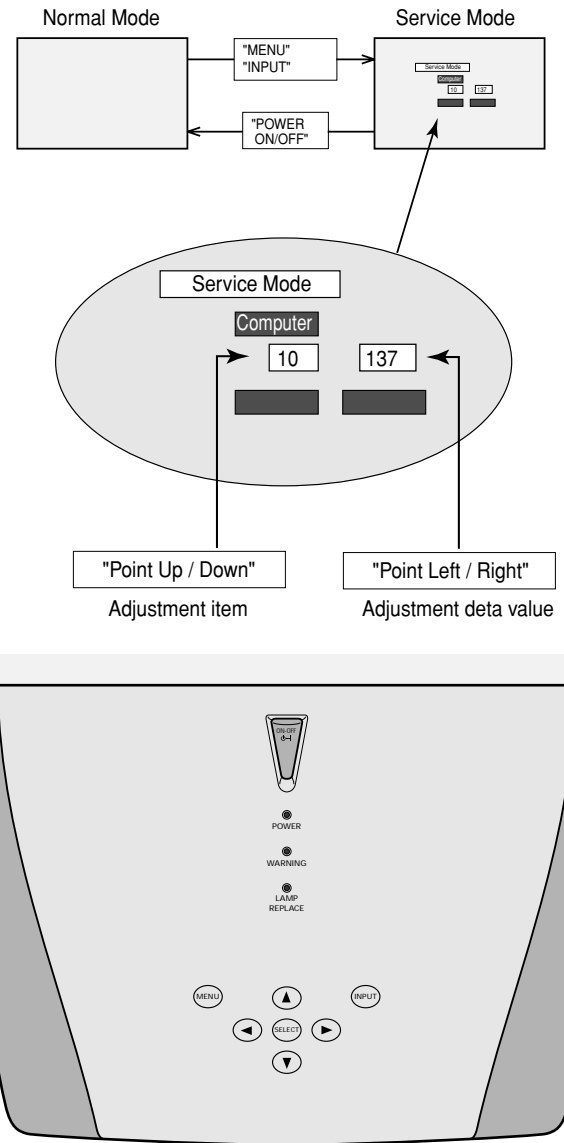
■ Adjustment

Adjust service data using the following control buttons.

1. "POINT UP" ----- An item number increases.
2. "POINT DOWN" -- An item number decreases.
3. "POINT RIGHT" -- An adjustment value increases.
4. "POINT LEFT" ---- An adjustment value decreases.

■ To exit service mode

Press the "POWER on/off" button only once on the projector or remote control unit to quit the service mode.



■ MEMORY IC REPLACEMENT

IC1841 on the main board stores the data for the service adjustments, and should not be replaced except for the case of defective device.

If replaced, it should be performed the re-adjustments following to the "Electrical Adjustments".

The data of lamp replacement monitor timer is stored in the IC1841.

Please note that the lamp replace counter is reset when the memory IC (IC1841) is replaced.

(Lamp replace counter can not be set to the previous value.)

● Caution to memory IC replacement

When IC1841 is replaced with new one, the CPU writes down the default data of the service adjustments to the replaced IC, refer to the service adjustment table. As these data are not the same data as factory shipped data, it should be required to perform

the re-adjustments following to the "Electrical Adjustments".

Please note that in this case the lamp replace counter will be reset.

● Caution of Main Board replacement (in the case IC1841 is not defective)

When the main board is replaced, IC1841 should be replaced with the one on previous main board. After replacement, it should be required to perform the re-adjustments following to the "Electrical Adjustments".

In this case, the lamp replace counter can be kept the value as before.

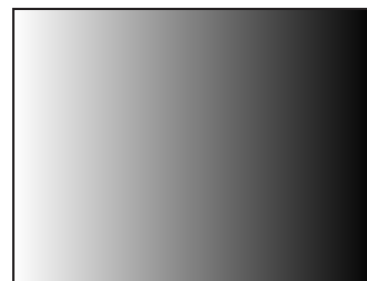
Caution :

Other adjustment items are not related to service and a maintenance. Don't press the POINT (L) and (R) button at the time of those adjustment items. Otherwise it may cause loss of product safety.

[Adjustment Condition]

- Input signal
 - Video signal 1.0Vp-p/75Ω terminated, 16 steps gray scale, white 100% and white 50% pattern (Composite video signal)
 - Computer signal 0.7Vp-p/75Ω terminated, 16 steps gray scale pattern (SVGA)
 - Component Video signal 0.7Vp-p/75Ω terminated, 16 steps gray scale, white 100% and black 0% pattern (480i format and 480p format)
- Picture control mode "STANDARD" mode unless otherwise noted.

16 steps gray scale pattern



White 100%

Black 100%

Note: Please refer to "Service Adjustment Menu Operation" for entering to the service mode and adjusting the service data.

■ ELECTRICAL ADJUSTMENTS

1. Fan Minimum Voltage Adjustment

Equipment Digital voltmeter
Adjustment Value 3.5 ± 0.05 V-DC

Enter the Service mode.

Adjust values of below items by the POINT L or R button.

Item no.	Fan Location	Test Point
100	FN901	TPFAN1
101	FN902	TPFAN2
102	FN903	TPFAN3
103	FN904/5	TPFAN4

2. Signal Center Adjustment

Equipment Digital voltmeter.
Input mode Input 2 [RGB Analog]
Input Signal 16 step gray scale signal

Enter the Service mode.

Adjust below values of each test points by the POINT L or R button.

Item no.	Test Point	Adjustment value
1	TPV1R	6.5 ± 0.05 V-DC.
2	TPV1G	6.5 ± 0.05 V-DC.
3	TPV1B	6.5 ± 0.05 V-DC.

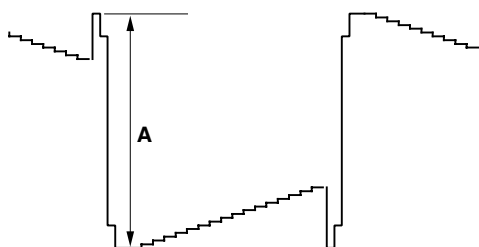
3. Reference Adjustment

Equipment Oscilloscope
Input mode Input 2 [RGB Analog]
Input Signal 16 step gray scale signal

Enter the Service mode.

Adjust the amplitude of part A to be below value for each test point by the POINT L or R button.

Item no.	Test Point	Adjustment value
10	TP35R	10.0 ± 0.1 Vp-p
11	TP35G	10.0 ± 0.1 Vp-p
12	TP35B	10.0 ± 0.1 Vp-p



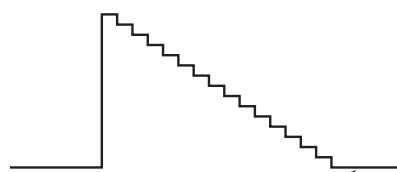
4. Pedestal Adjustment (PC & Component)

Equipment Oscilloscope
Input Signal 16 step gray scale signal
4-1 Input mode Input 2 [RGB Analog]
4-2 Input mode Input 2 [Component: 480p]

Enter the Service mode.

Adjust the level of Black and pedestal to be same for each test point by the POINT L or R button **in each mode**.

Item no.	Test Point
203	TP35R
204	TP35G
205	TP35B



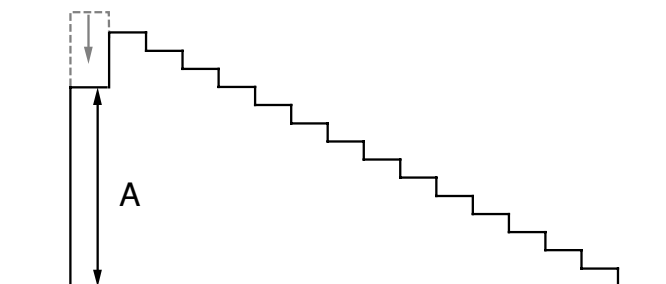
Pedestal Level = Black Level

5. Gain Adjustment

Equipment	Oscilloscope
Input Signal	16 step gray scale signal
5-1 Input mode	Input 2 [RGB Analog]
5-2 Input mode	Input 2 [Component: 480p]
5-3 Input mode	Input 2 [Component: 480i]
5-4 Input mode	Input 1 [Video: NTSC]

Enter the Service mode.
Adjust below level "A" in each test point to be minimum amplitude by the POINT L or R button **in each mode**.

<u>Item no.</u>	<u>Test Point</u>
7	TP35R
8	TP35G
9	TP35B



6. Common Voltage Adjustment

Input mode	Input 2 [RGB Analog]
Input Signal	1dot computer signal

Enter the Service mode.
Adjust to be minimum flicker for each color by the POINT L or R button.

<u>Item no.</u>	<u>Screen</u>
13	Only red color picture
14	Only green color picture
15	Only blue color picture

7. 50% Luminance Adjustment

Input Signal	16 step gray scale signal
7-1 Input mode	Input 2 [RGB Analog]
7-2 Input mode	Input 2 [Component: 480p]
7-3 Input mode	Input 2 [Component: 480i]

Enter the Service mode.
If the black or white saturated picture can be seen, adjust the item "No.16" to be reduced it by the POINT L or R button.

8. White Balance Adjustment

Input Signal	16 step gray scale signal
8-1 Input mode	Input 2 [RGB Analog]
8-2 Input mode	Input 2 [Component: 480p]
8-3 Input mode	Input 2 [Component: 480i]

Enter the Service mode.
Adjust the item "No.17 (Red)" and "No.18 (Blue)" to be good white balance by the POINT L or R button.

Note: The white balance of each mode must be same.

(9. Color Shading Correction)

For the color shading correction, the proper computer and "Color Shading Correction" software are needed.
The software can be ordered as follows.

COLOR SHADING CORRECTION

Service Parts No.

645 056 6288 or 645 066 7428

■ SERVICE ADJUSTMENT DATA TABLE

These initial values are the reference data written from the CPU ROM to memory IC when replaced new memory IC. The adjustment items indicated with “*” are required to readjust following to the “Electrical adjustments”. Other items should be used with the initial data value.

No.	Name	Initial								Range	Detail Note: 480i(+) = 480i + 575i 480p(+) = 480p + HDTV	
		AD9882				Micronas		Video				
		PC	DVI	HDCP	YPbPr	YCbCr	SCART	NTSC	PAL			
1	R-VIDEOCNT	*	53								0-255	Video Center Adjustment (= RGB - V1)
2	G-VIDEOCNT	*	53								0-255	
3	B-VIDEOCNT	*	53								0-255	
4	R-SubBright		0	0	0	0	0	0	0	0-1023		
5	G-SubBright		0	0	0	0	0	0	0	0-1023		
6	B-SubBright		0	0	0	0	0	0	0	0-1023		
7	R-SubGain	*	520	490	490	530	530	530	530	0-1023	Gain Adjustment [R]	
8	G-SubGain	*	520	490	490	530	530	530	530	0-1023	Gain Adjustment [G]	
9	B-SubGain	*	520	490	490	530	530	530	530	0-1023	Gain Adjustment [B]	
10	REF-R		140								0-255	
11	REF-G		140								0-255	
12	REF-B		140								0-255	
13	BVCOM	*	95								0-255	Common Center Adjustment
14	GVCOM	*	95								0-255	
15	RVCOM	*	95								0-255	
16	G-GammaShift	*	512	500	500	512	512	512	512	0-1023	Gamma Adjustment	
17	R-GammaShift	*	512	500	500	512	512	512	512	0-1023	White Balance Adjustment [R]	
18	B-GammaShift	*	512	500	500	512	512	512	512	0-1023	White Balance Adjustment [B]	
21	R-V2		(86)								0-255	Link to No.1
22	G-V2		(86)								0-255	Link to No.2
23	B-V2		(86)								0-255	Link to No.3
24	SubBright		128	128	128	128	128	128	128	-		
25	SubColor					96	95	95	95	95	-	
26	SubTint					0	0	0	0	0	-	
28	SubBright(Video)							128	128	128	0-255	
29	SubCont(Video)							55	55	56	0-63	
30	SubColor(Video)							2070	2070	2070	0-4095	
31	SubTint(Video)							512	512	512	0-1023	
32	SubBright(480i,575i)						196	196	196	196	0-255	
33	SubCont(480i,575i)						21	23	23	23	0-63	
34	SubColor-Cb(480i,575i)						35	23	35	35	0-63	575i is linked to PAL
35	SubColor-Cr(480i,575i)						35	29	35	35	0-63	480i is linked to NTSC
36	SubTint(480i,575i)						32	32	32	32	0-63	
37	YC Delay						62	62	62	62	0-63	
38	SubSharpness							0	0	0	-	
39	V-Line Color Shading Correction <R1>		2								0-255	
40	V-Line Color Shading Correction <R2>		1								0-255	
41	V-Line Color Shading Correction <R3>		254								0-255	
42	V-Line Color Shading Correction <G1>		2								0-255	
43	V-Line Color Shading Correction <G2>		1								0-255	
44	V-Line Color Shading Correction <G3>		254								0-255	
45	V-Line Color Shading Correction <B1>		2								0-255	
46	V-Line Color Shading Correction <B2>		1								0-255	
47	V-Line Color Shading Correction <B3>		254								0-255	
48	<R>Reference Voltage (H)		1016								0-1023	
49	<R>Reference Voltage (L)		420								0-1023	
50	<G>Reference Voltage (H)		1016								0-1023	
51	<G>Reference Voltage (L)		420								0-1023	
52	Reference Voltage (H)		1016								0-1023	
53	Reference Voltage (L)		420								0-1023	
54											-	
55	Color Shading Correction ON/OFF		1								-	V-Line Correction
56	LampLifeTime										-	Display Only
57	BauRate		1								-	0;9600/ 1;19200/ 2;38400
58	ShootOutMode		0								-	0;Normal/ 1;Shoot out1/ 2;Shoot out2
59	PC Frame Lock		0								-	0: Unlocked, 1: 45MHz-60.1MHz Locked
60	Forced NoBrand		0								-	0: Normal, 1: No Brand
	AutoGrayScaleTune											
70	White Controlled Starting Point		30								0-255	
71	White Controlled Limit Point		61								0-255	
72	White Controlled Starting Point		9								0-255	
73	White Controlled Limit Point		1								0-255	
	FAN CONTROL											
100	Fan1 Min Adjust	*	28								0-255	Fan Voltage: 3.5V Adjustment
101	Fan2 Min Adjust	*	28								0-255	
102	Fan3 Min Adjust	*	28								0-255	
103	Fan4 Min Adjust	*	28								0-255	

■ Adjustment

No.	Name	Initial								Range	Detail Note: 480i(+) = 480i + 575i 480p(+) = 480p + HDTV
		AD9882				Micronas		Video			
		PC	DVI	HDCP	YPbPr	YCbCr	SCART	NTSC	PAL		
104	Fan1 Max Adjust	185								0-255	Fan Voltage: 14.5V Adjustment
105	Fan2 Max Adjust	185								0-255	
106	Fan3 Max Adjust	185								0-255	
107	Fan4 Max Adjust	185								0-255	
108	Fan Control Mode	0								0-4	
109	Fan Max Min SW	0								0-2	0:Normal,1:Cell, 2:Wall, 3:H-Pressure, 4:Manual 0:Auto Fan Control, 1:Min,2:Max
		Normal	Cell	Wall	H-Pre						
110	Fan1 Min	80	80	80	85				30-145	Fan Minimum Voltage (Normal)	
111	Fan2 Min	50	50	50	60				30-145		
112	Fan3 Min	90	90	90	110				30-145		
113	Fan4 Min	45	45	45	70				30-145		
114	Fan1 Max	110	110	110	120				30-145		
115	Fan2 Max	95	95	95	95				30-145	Fan Maximum Voltage (Normal)	
116	Fan3 Max	132	132	132	132				30-145		
117	Fan4 Max	135	135	135	135				30-145		
118	TempA Low	30	30	30	29				10-100		
119	TempA High	38	38	38	38				10-100		
120	Eco Fan1 Min	55	55	55	85				30-145	Fan Minimum Voltage (Eco)	
121	Eco Fan2 Min	35	35	35	55				30-145		
122	Eco Fan3 Min	58	58	58	90				30-145		
123	Eco Fan4 Min	35	35	35	60				30-145		
124	Eco Fan1 Max	75	75	75	105				30-145		
125	Eco Fan2 Max	50	50	50	60				30-145	Fan Maximum Voltage (Eco)	
126	Eco Fan3 Max	90	90	90	100				30-145		
127	Eco Fan4 Max	90	90	90	110				30-145		
128	Eco TempA Low	30	30	30	29				10-100		
129	Eco TempA High	38	38	38	38				10-100		
130	TempA Error	43	44	44	40				10-100		
131	TempB Error	80	80	80	80				10-100		
132	TempC Error	54	54	55	45				10-100		
133	TempB-A Error	50	50	50	33				10-100		
134	TempC-A Error	32	32	32	20				10-100		
135	TempB Low UP	63								10-100	
136	TempB High Up	64								10-100	
137	TempB Low Down	41								10-100	
138	TempB High Down	42								10-100	
139	Manual Fan1 Voltage	100								30-145	Fan Operating Voltage (Manual)
140	Manual Fan2 Voltage	100								30-145	
141	Manual Fan3 Voltage	100								30-145	
142	Manual Fan4 Voltage	100								30-145	
143	Temp Error Cooling Time	3								0-15	
144	Cooling Time	3								0-15	0:Always,1:30s, 2:60s, /... /, 15:450s
145	average time	2								1-5	
146	ECO LAMP TIME									-	
147	NORMAL LAMP TIME									-	
148	PROJECTOR TIME									-	
	VPC3230										
150	Notch Filter Select							3	0	-	
151	diagonal dot reduction							1	0	-	
152	horizontal differential gain							2	1	-	
153	vertical differential gain							3	3	-	
154	vertical peaking gain							7	7	-	
155	AFC Other 1							540	540	-	
156	AFC Other 2							536	536	-	
157	Horizontal Peaking Filter					2	2	1	1	-	
158	Peaking Gain					1	1	2	2	-	
159	peaking filter coring enable					0	0	0	0	-	
160	AGC On/OFF							0	0	-	0:165, 1:AGC ON
161	Horizontal Lowpass Filter					1	1	1	1	-	
162	Horizontal Lowpass Filter Chroma					0	0	0	0	-	
163	DOR					0	0	0	0	-	
164	COR					0	0	0	0	-	
165	SGAIN							22	22	-	
	ADC										
200	REDGAIN	70				70				0-255	
201	GRNGAIN	70				70				0-255	
202	BLUGAIN	70				70				0-255	
203	REDOFST	* 60				70				0-127	

No.	Name		Initial							Range	Detail Note: 480i(+) = 480i + 575i 480p(+) = 480p + HDTV	
			AD9882				Micronas		Video			
			PC	DVI	HDCP	YPbPr	YCbCr	SCART	NTSC			PAL
204	GRNOFST	*	60			55				0-127		
205	BLUOFST	*	60			70				0-127		
208										-		
209	RACLP		0			0				0-255	B Clamp Voltage Setting	
210	GACLP		0			0				0-255	G Clamp Voltage Setting	
211	BACLP		0			0				0-255	R Clamp Voltage Setting	
219	DLY3.3V_ON					100				-	Timing from Power On to 3.3V	
220	DLY5V_ON					100				-	Timing from 3.3V to 5V	
221										-		
230	NTSC(480i)Clamp Placement	2								-		
231	NTSC(480i)Clamp Duration	36								-		
232	PAL(575i)Clamp Placement	4								-		
233	PAL(575i)Clamp Duration	45								-		
234	SVGA Clamp Placement	3								-		
235	SVGA Clamp Duration	20								-		
236	XGA Clamp Placement	4								-		
237	XGA Clamp Duration	30								-		
238	VGA Clamp Placement	3								-		
239	VGA Clamp Duration	23								-		
240	SXGA Clamp Placement	7								-		
241	SXGA Clamp Duration	32								-		
242	MAC Clamp Placement	5								-		
243	MAC Clamp Duration	44								-		
244	480p Clamp Placement	10								-	RGB	
245	480p Clamp Duration	20								-	RGB	
246	575p Clamp Placement	3								-	RGB	
247	575p Clamp Duration	20								-	RGB	
248	1080i Clamp Placement	55								-	RGB	
249	1080i Clamp Duration	20								-	RGB	
250	1080i_50 Clamp Placement	45								-	RGB	
251	1080i_50 Clamp Duration	36								-	RGB	
252	1035i Clamp Placement	48								-	RGB	
253	1035i Clamp Duration	36								-	RGB	
254	720p Clamp Placement	48								-	RGB	
255	720p Clamp Duration	36								-	RGB	
256	480p Clamp Placement				16					-	Component	
257	480p Clamp Duration				80					-	Component	
258	575p Clamp Placement				24					-	Component	
259	575p Clamp Duration				80					-	Component	
260	1080i Clamp Placement				10					-	Component	
261	1080i Clamp Duration				10					-	Component	
262	1080i_50 Clamp Placement				7					-	Component	
263	1080i_50 Clamp Duration				70					-	Component	
264	1035i Clamp Placement				7					-	Component	
265	1035i Clamp Duration				60					-	Component	
266	720p Clamp Placement				7					-	Component	
267	720p Clamp Duration				80					-	Component	
	Over Scan											
300	Expand Ratio (Vertical) 60Hz							1		-	Video and S-Video mode only. Progressive OFF	
301	Expand Ratio (Horizontal) 60Hz							4		-		
302	Position (Horizontal) 60Hz							512		-		
303	Position (Vertical) 60Hz							384		-		
304	Expand Ratio (Vertical) 50Hz								5	-		
305	Expand Ratio (Horizontal) 50Hz								4	-		
306	Position (Horizontal) 50Hz								512	-		
307	Position (Vertical) 50Hz								383	-		
308	Expand Ratio (Vertical) 480i					1				-	For Component 480i mode Progressive OFF	
309	Expand Ratio (Horizontal) 480i					3				-		
310	Position (Horizontal) 480i					515				-		
311	Position (Vertical) 480i					384				-		
312	Expand Ratio (Vertical) 575i					5				-	For Component 575i mode Progressive OFF	
313	Expand Ratio (Horizontal) 575i					4				-		
314	Position (Horizontal) 575i					511				-		
315	Position (Vertical) 575i					383				-		
316	Expand Ratio (Vertical) 480p				10					-	For Component 480p mode	
317	Expand Ratio (Horizontal) 480p				34					-		
318	Position (Horizontal) 480p				512					-		
319	Position (Vertical) 480p				383					-		

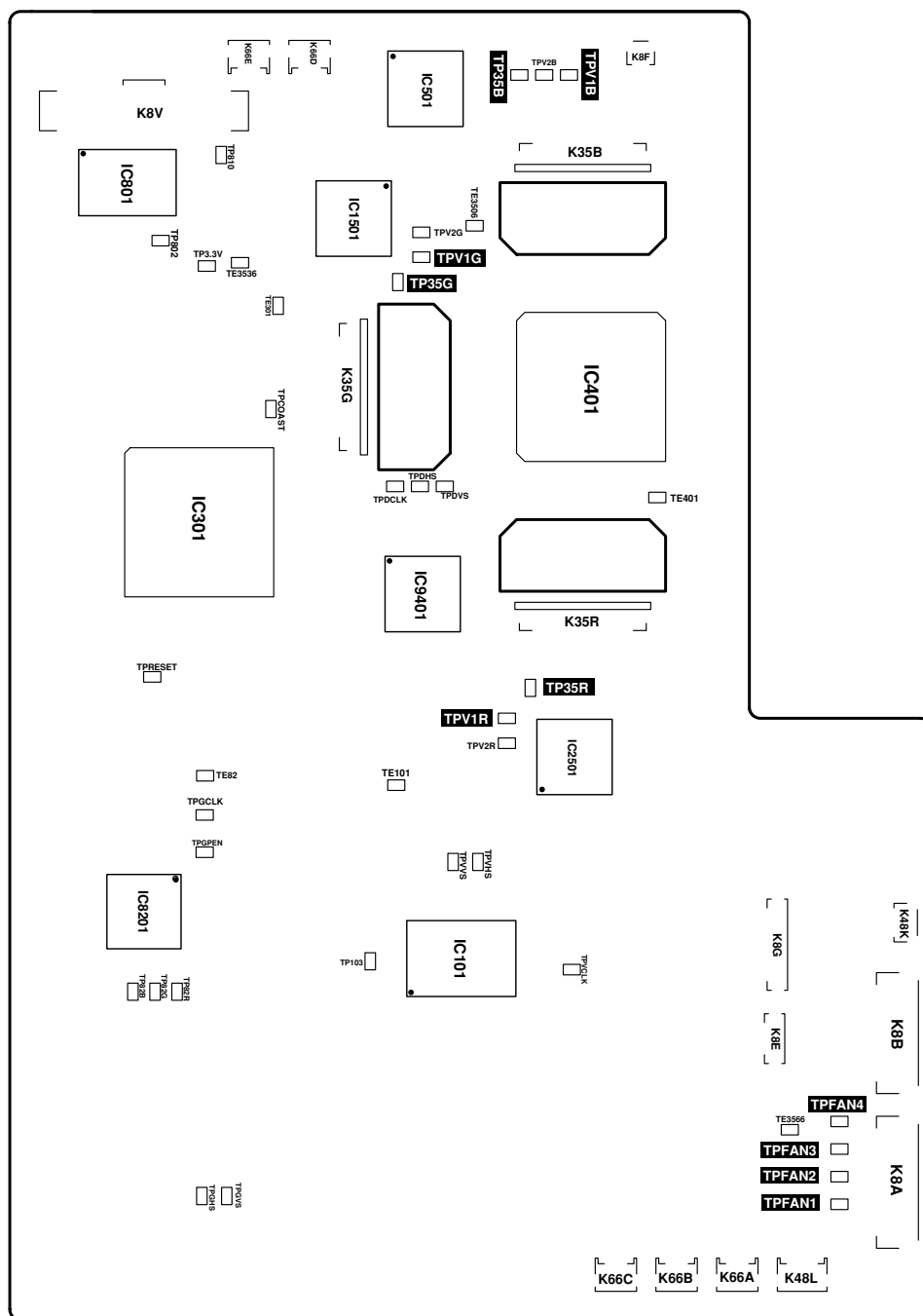
No.	Name	Initial								Range	Detail Note: 480i(+) = 480i + 575i 480p(+) = 480p + HDTV	
		AD9882				Micronas		Video				
		PC	DVI	HDCP	YPbPr	YCbCr	SCART	NTSC	PAL			
320	Expand Ratio (Vertical) 575p				14				-	For Component 575p mode		
321	Expand Ratio (Horizontal) 575p				27				-			
322	Position (Horizontal) 575p				485				-			
323	Position (Vertical) 575p				394				-			
324	Expand Ratio (Vertical) 720p				10				-	For Component 720p mode		
325	Expand Ratio (Horizontal) 720p				16				-			
326	Position (Horizontal) 720p				524				-			
327	Position (Vertical) 720p				384				-			
328	Expand Ratio (Vertical) 1035i				7				-	For Component mode and RGB HDTV 1035i		
329	Expand Ratio (Horizontal) 1035i				24				-			
330	Position (Horizontal) 1035i				529				-			
331	Position (Vertical) 1035i				384				-			
332	Expand Ratio (Vertical) 1080i				7				-	For Component mode and RGB HDTV 1080i		
333	Expand Ratio (Horizontal) 1080i				24				-			
334	Position (Horizontal) 1080i				522				-			
335	Position (Vertical) 1080i				377				-			
336	Expand Ratio (Vertical) 60Hz	14								-	RGB NTSC	
337	Expand Ratio (Horizontal) 60Hz	31								-		
338	Position (Horizontal) 60Hz	506								-		
339	Position (Vertical) 60Hz	383								-		
340	Expand Ratio (Vertical) 50Hz	10								-	RGB PAL	
341	Expand Ratio (Horizontal) 50Hz	22								-		
342	Position (Horizontal) 50Hz	498								-		
343	Position (Vertical) 50Hz	385								-		
344	Expand Ratio (Vertical) 50Hz				8				-	1080i_50Hz and RGB HDTV 1080i@50		
345	Expand Ratio (Horizontal) 50Hz				16				-			
346	Position (Horizontal) 50Hz				512				-			
347	Position (Vertical) 50Hz				384				-			
348	Expand Ratio (Vertical) SCART						5			-	SCART Progressive OFF	
349	Expand Ratio (Horizontal) SCART						4			-		
350	Position (Horizontal) SCART						513			-		
351	Position (Vertical) SCART						383			-		
352	Expand Ratio (Vertical) 60Hz							2		-	Video and S-Video mode only. Progressive ON	
353	Expand Ratio (Horizontal) 60Hz							4		-		
354	Position (Horizontal) 60Hz							512		-		
355	Position (Vertical) 60Hz							383		-		
356	Expand Ratio (Vertical) 50Hz								5	-		
357	Expand Ratio (Horizontal) 50Hz								4	-		
358	Position (Horizontal) 50Hz								512	-		
359	Position (Vertical) 50Hz								383	-		
360	Expand Ratio (Vertical) 480i						1			-	For Component 480i mode Progressive ON	
361	Expand Ratio (Horizontal) 480i						3			-		
362	Position (Horizontal) 480i						512			-		
363	Position (Vertical) 480i						383			-		
364	Expand Ratio (Vertical) 575i						5			-	For Component 575i mode Progressive ON	
365	Expand Ratio (Horizontal) 575i						4			-		
366	Position (Horizontal) 575i						511			-		
367	Position (Vertical) 575i						383			-		
368	Expand Ratio (Vertical) SCART							5			-	SCART Progressive ON
369	Expand Ratio (Horizontal) SCART							4			-	
370	Position (Horizontal) SCART							513			-	
371	Position (Vertical) SCART							383			-	
372	Expand Ratio (Vertical) 60Hz				10				-	480p and RGB 480p		
373	Expand Ratio (Horizontal) 60Hz				34				-			
374	Position (Horizontal) 60Hz				506				-			
375	Position (Vertical) 60Hz				376				-			
376	Expand Ratio (Vertical) 50Hz				14				-	575p and RGB 575p		
377	Expand Ratio (Horizontal) 50Hz				27				-			
378	Position (Horizontal) 50Hz				485				-			
379	Position (Vertical) 50Hz				394				-			
380	Expand Ratio (Vertical)				10	10		10	10	-	CAPTION IN	
381										-		
382										-		
383	Position (Vertical)				384	384		384	384	-		
384	Expand Ratio (Vertical) 1035i	7								-	For RGB HDTV 1035i	
385	Expand Ratio (Horizontal) 1035i	24								-		
386	Position (Horizontal) 1035i	526								-		
387	Position (Vertical) 1035i	384								-		

■ Adjustment

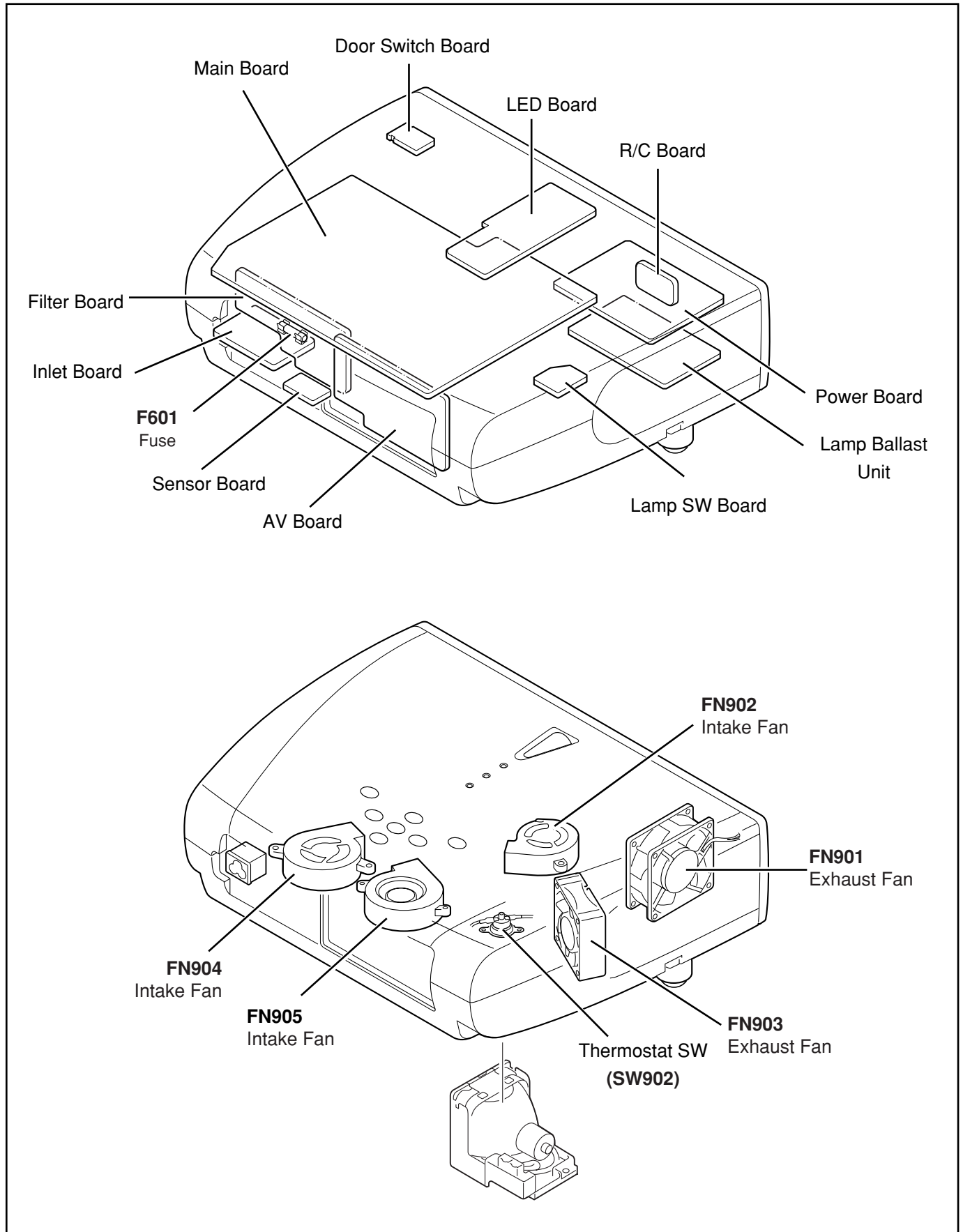
No.	Name	Initial								Range	Detail Note: 480i(+) = 480i + 575i 480p(+) = 480p + HDTV
		AD9882				Micronas		Video			
		PC	DVI	HDCP	YPbPr	YCbCr	SCART	NTSC	PAL		
388	Expand Ratio (Vertical) 1080i	8								-	For RGB HDTV 1080i
389	Expand Ratio (Horizontal) 1080i	24								-	
390	Position (Horizontal) 1080i	519								-	
391	Position (Vertical) 1080i	377								-	
392	Expand Ratio (Vertical) 50Hz	7								-	For RGB HDTV 1080i@50
393	Expand Ratio (Horizontal) 50Hz	16								-	
394	Position (Horizontal) 50Hz	504								-	
395	Position (Vertical) 50Hz	384								-	
396	HDCP			0						-	From 0 to 5
500	Service, 16,17,18 Link Flag	0							-	0: Non Link, 1: Link	

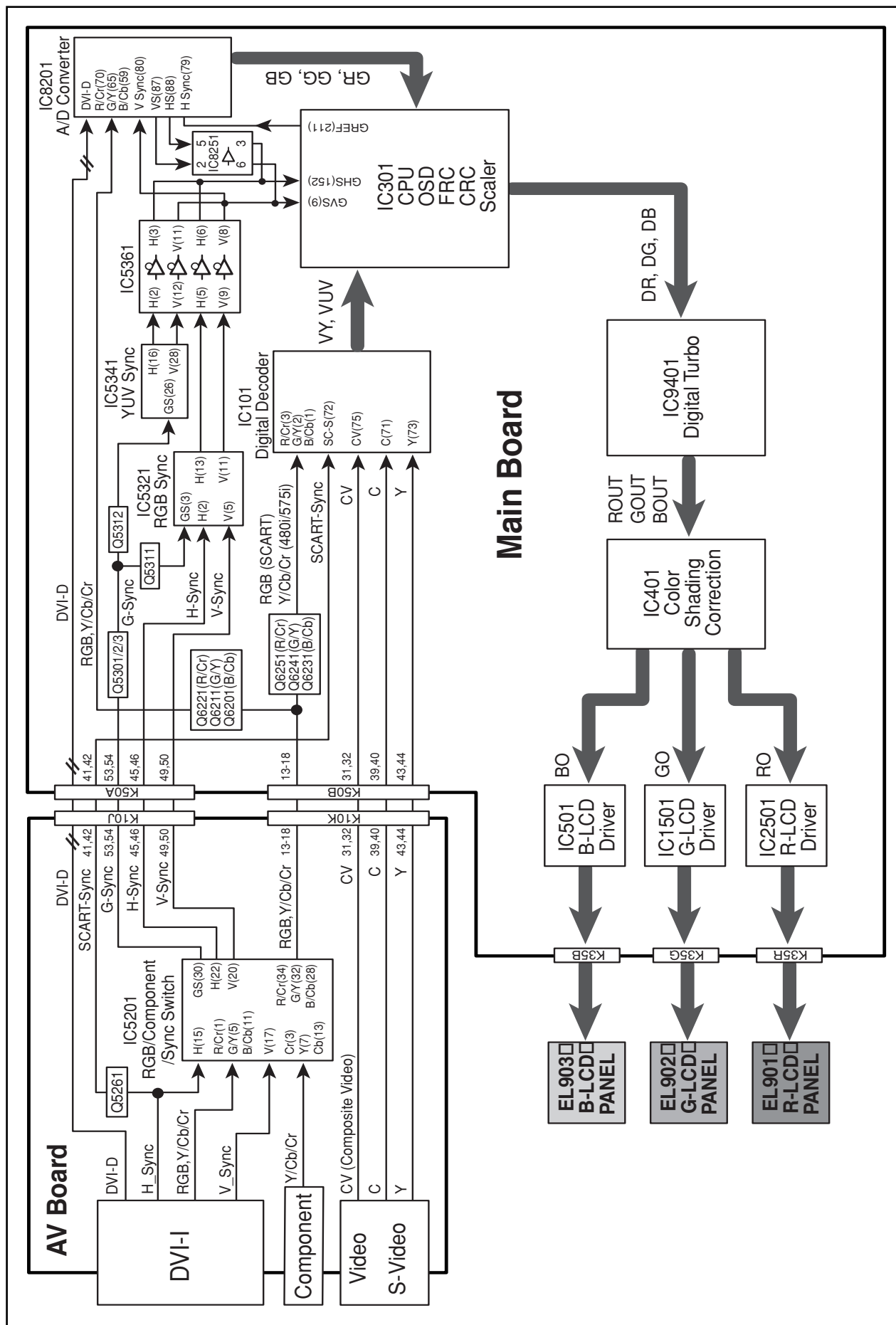
■ Test Points and Locations

■ MAIN BOARD

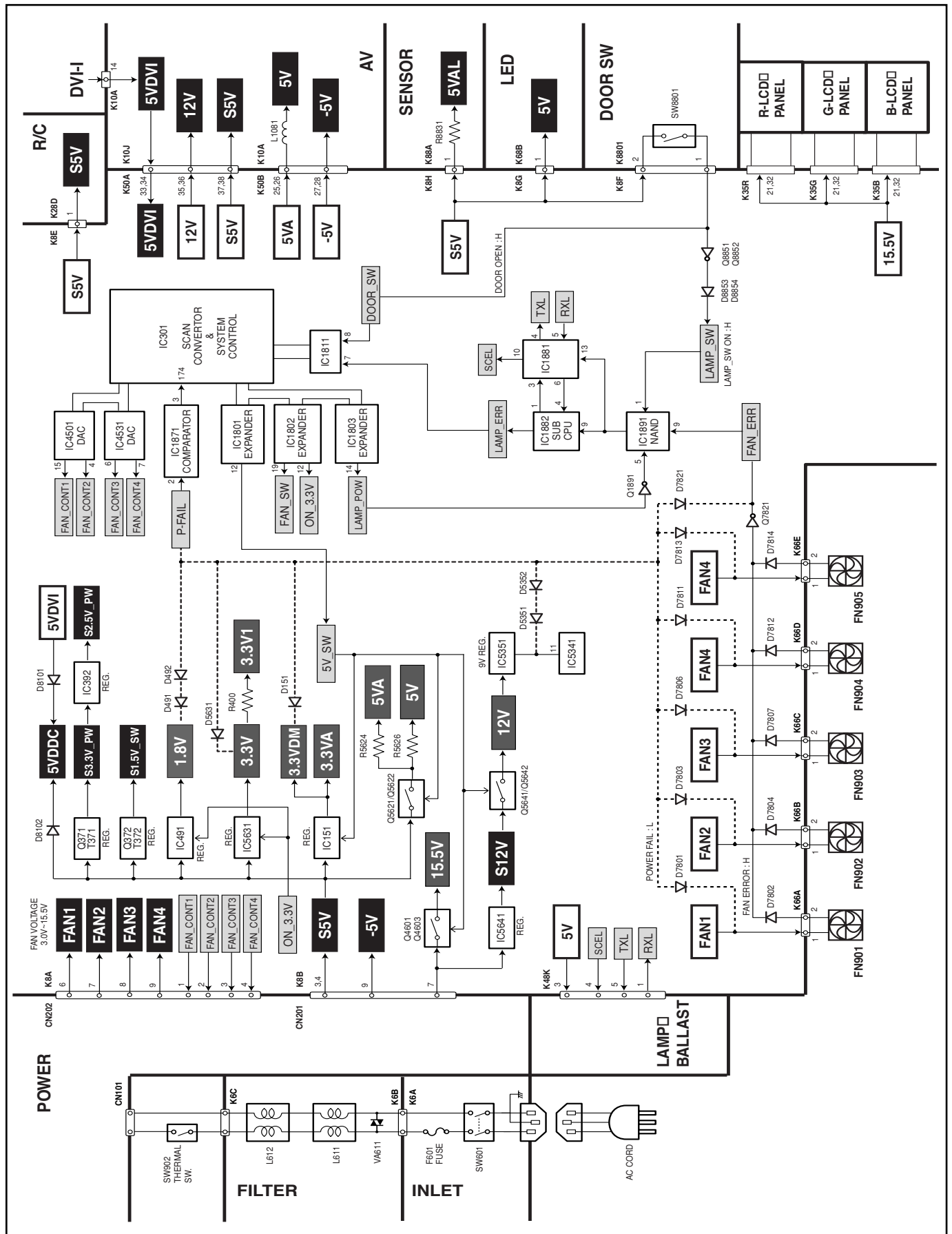


■ Locations of Fan and Board

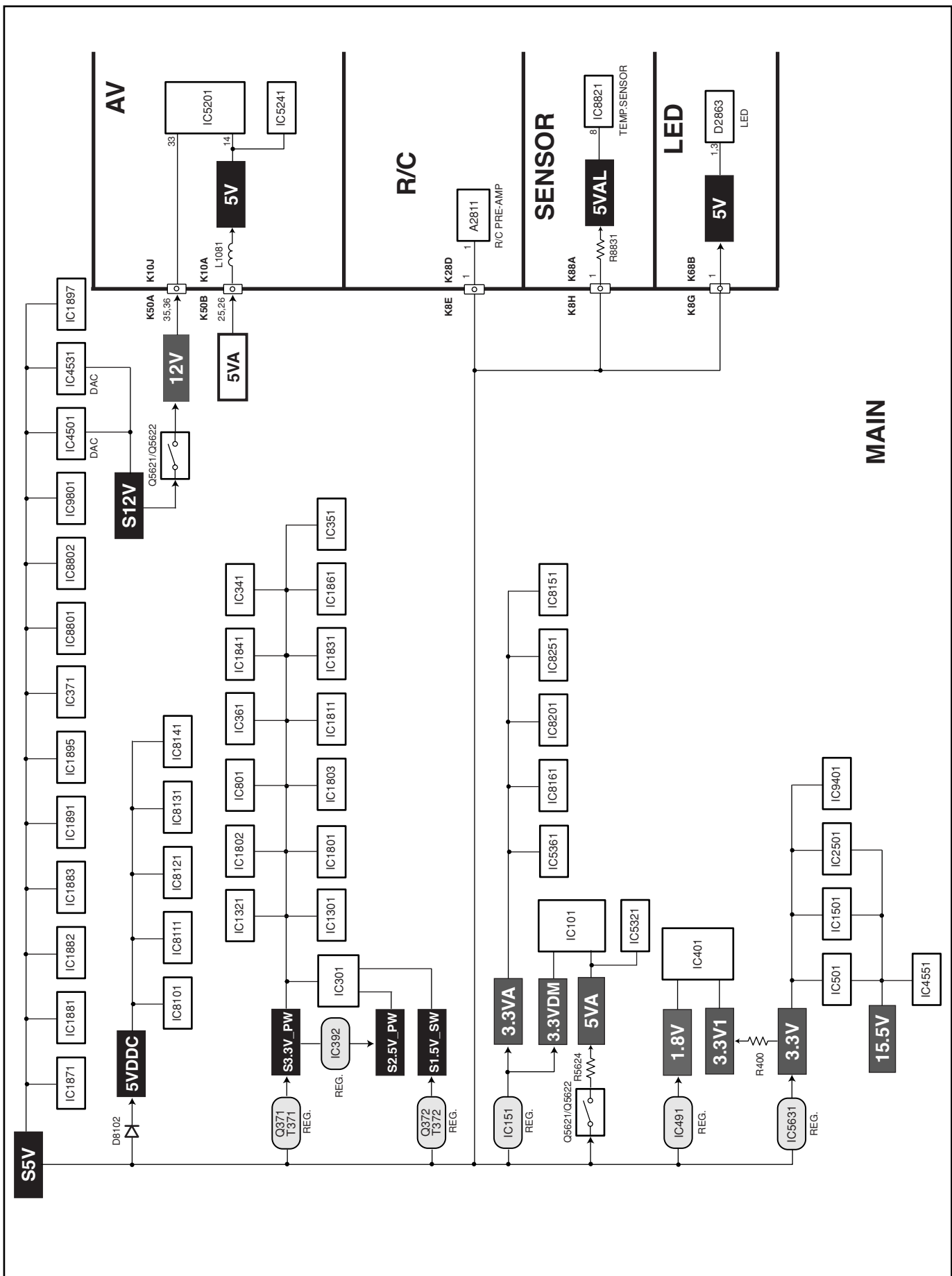




■ Power Supply Lines



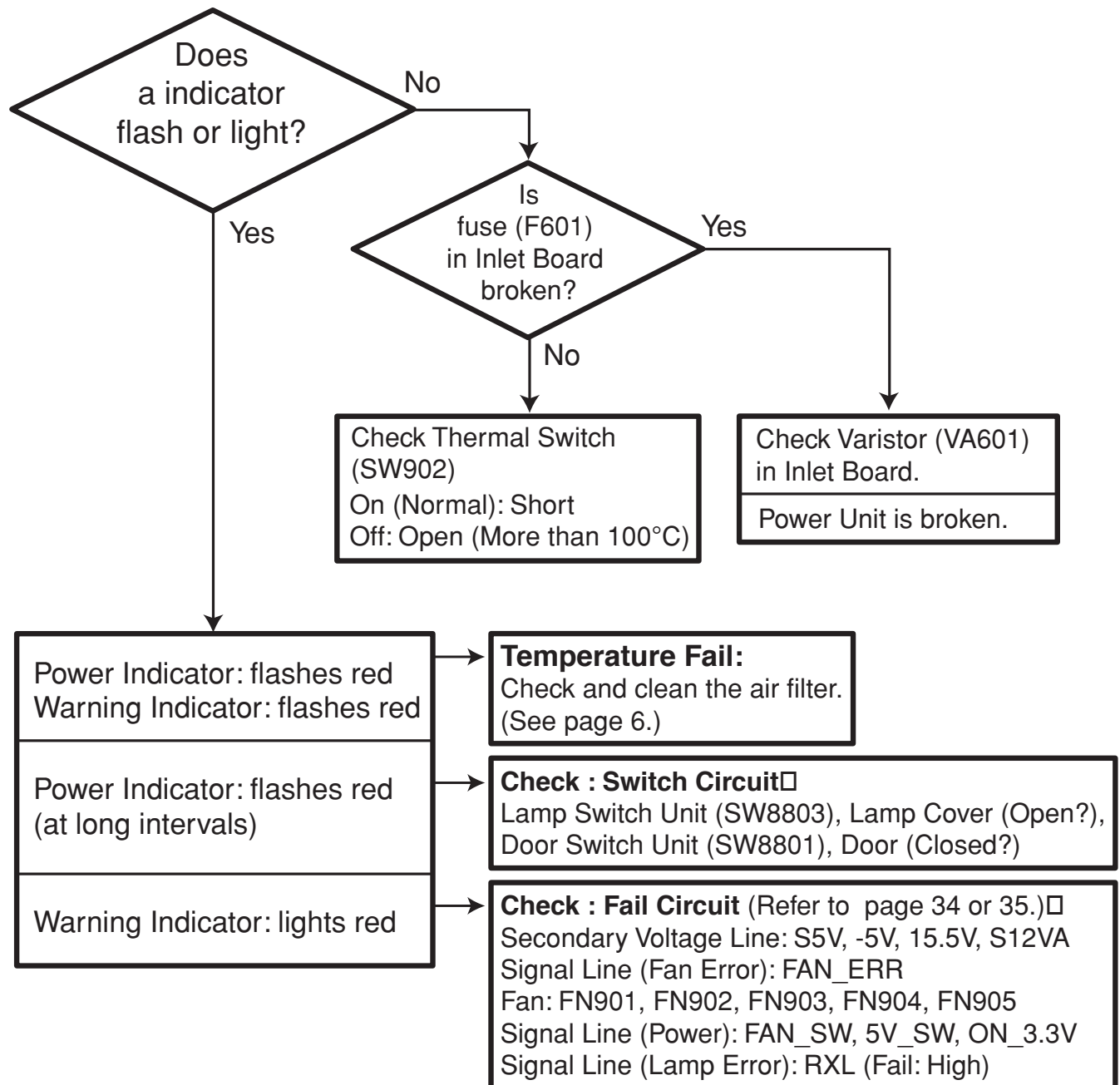
Power Source Lines (IC)



■ Troubleshooting

No Power

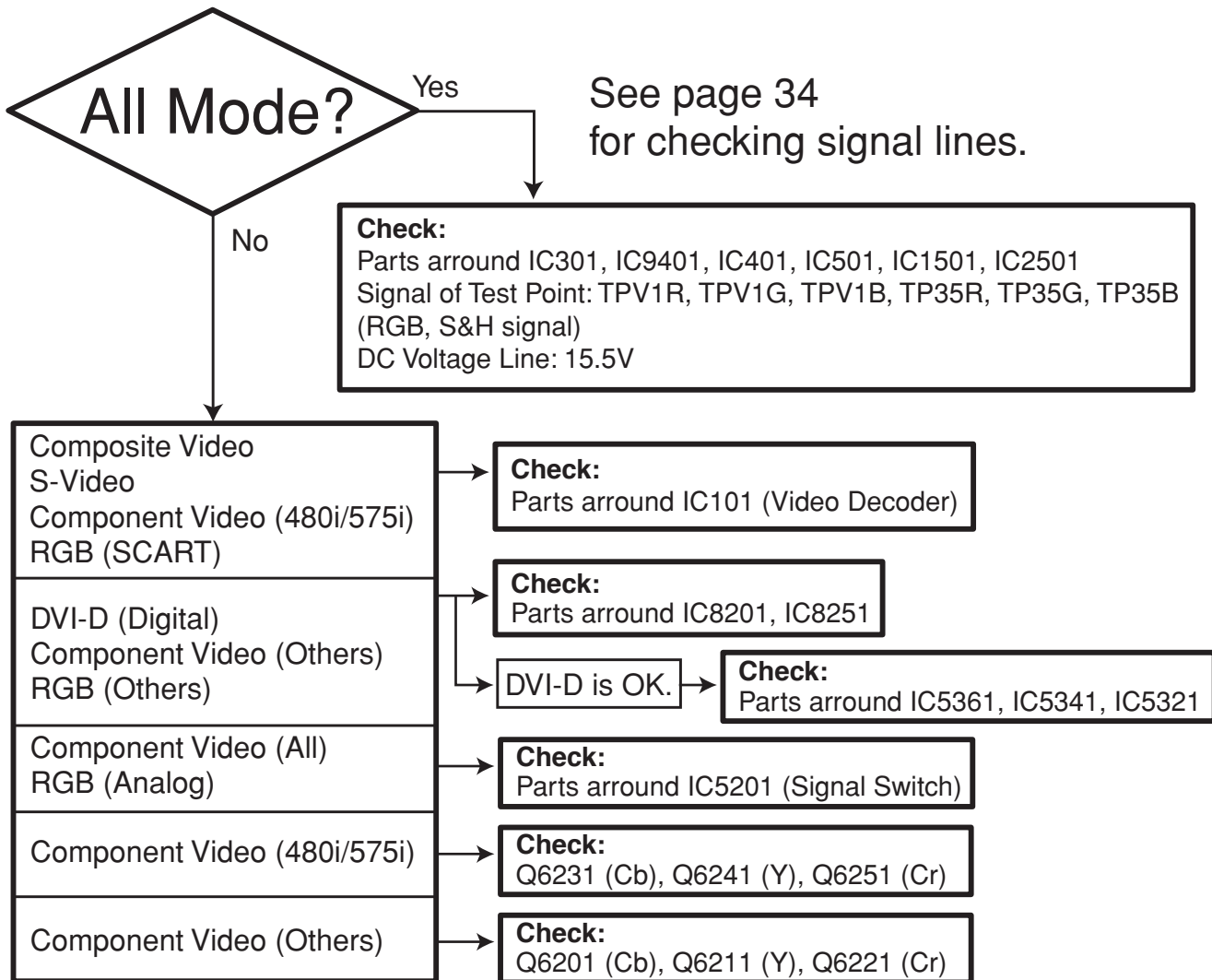
Refer to Schematic Diagram or Power Supply Line, find out the part of trouble.
Before opening Cabinet Top, check the AC cord and power source.



No Picture

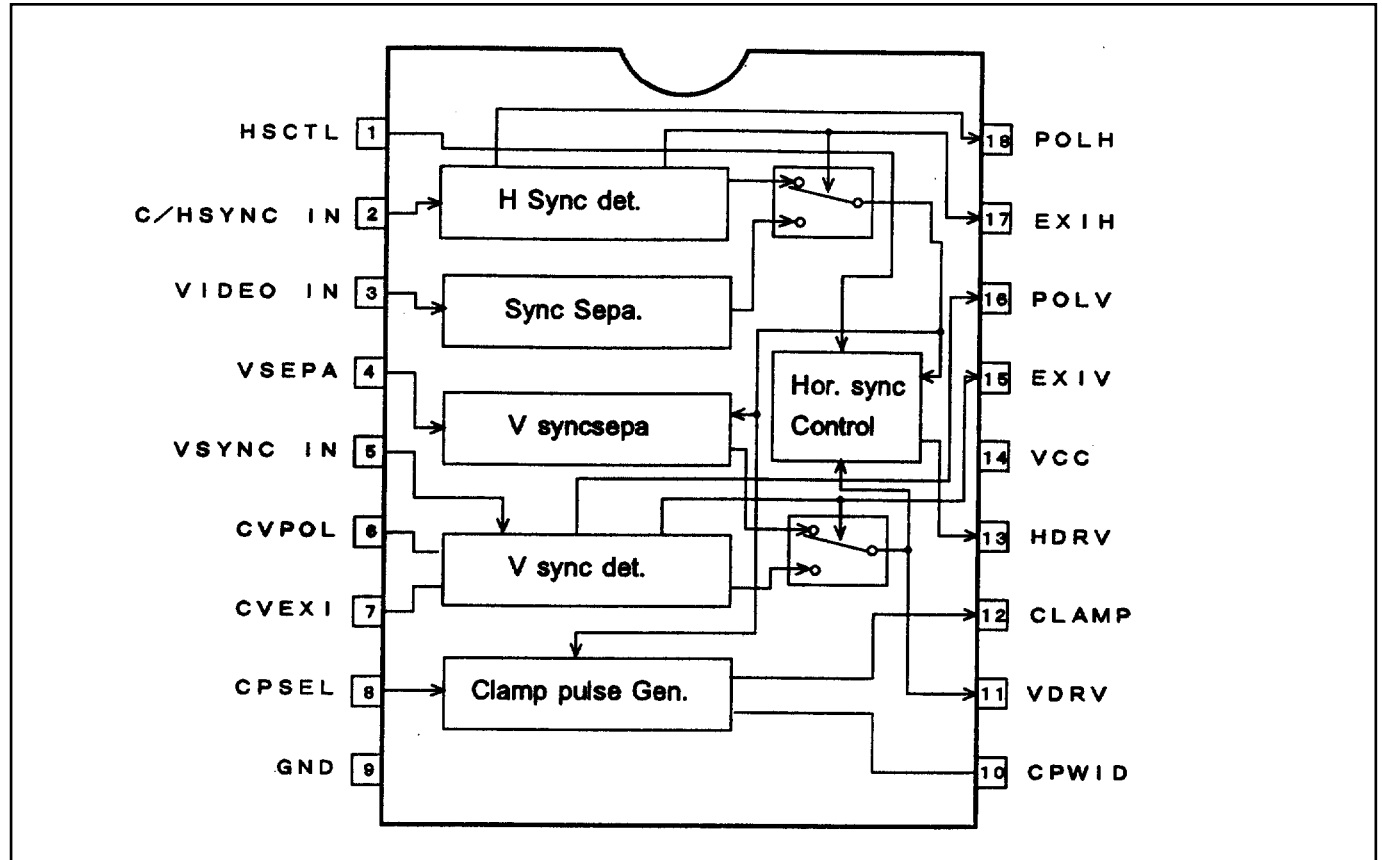
Refer to Schematic Diagram or Block Diagram (P34), find out the part of trouble.

In advance check the setting mode or connections according to Owner's Manual.

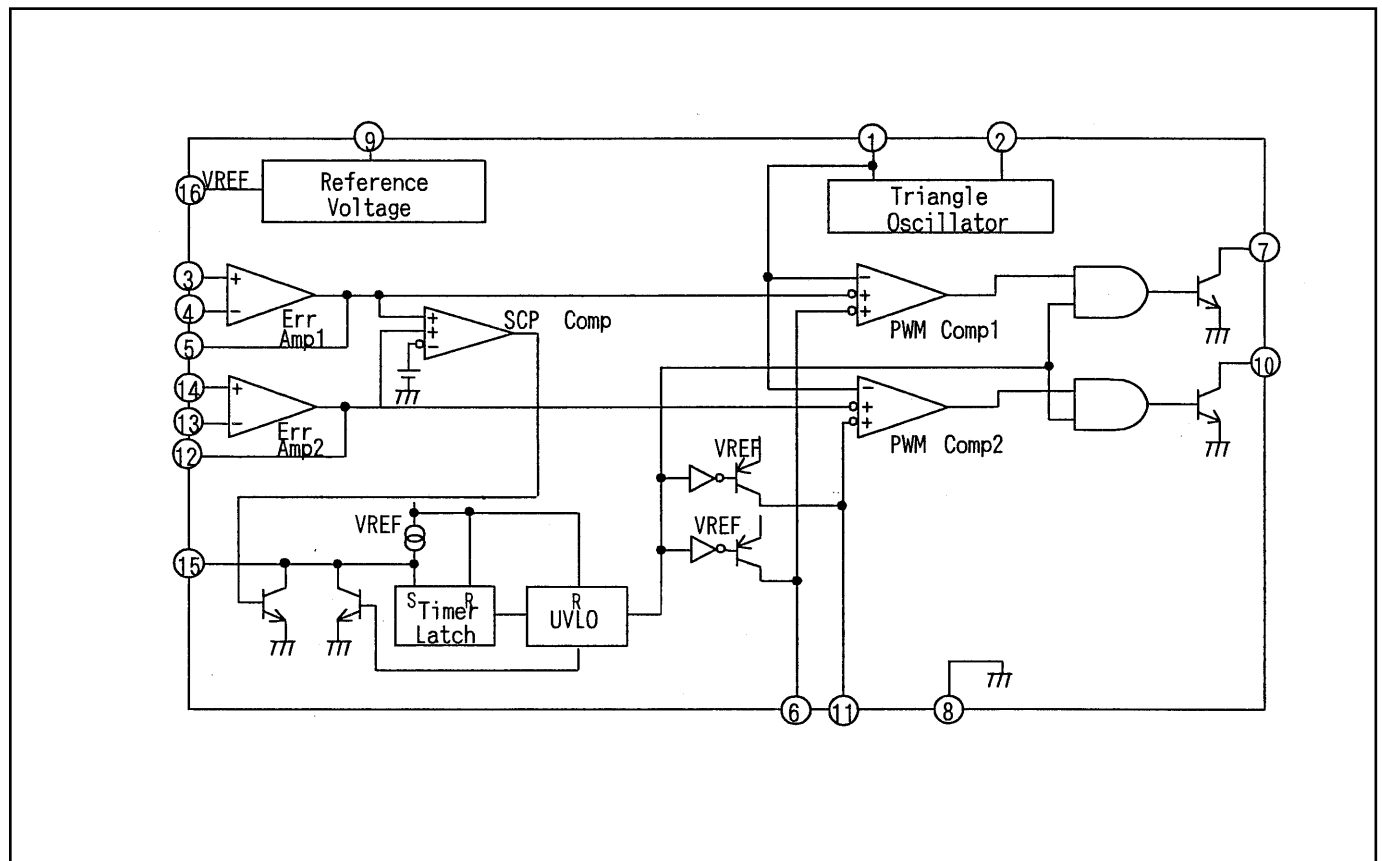


■ IC Block Diagrams

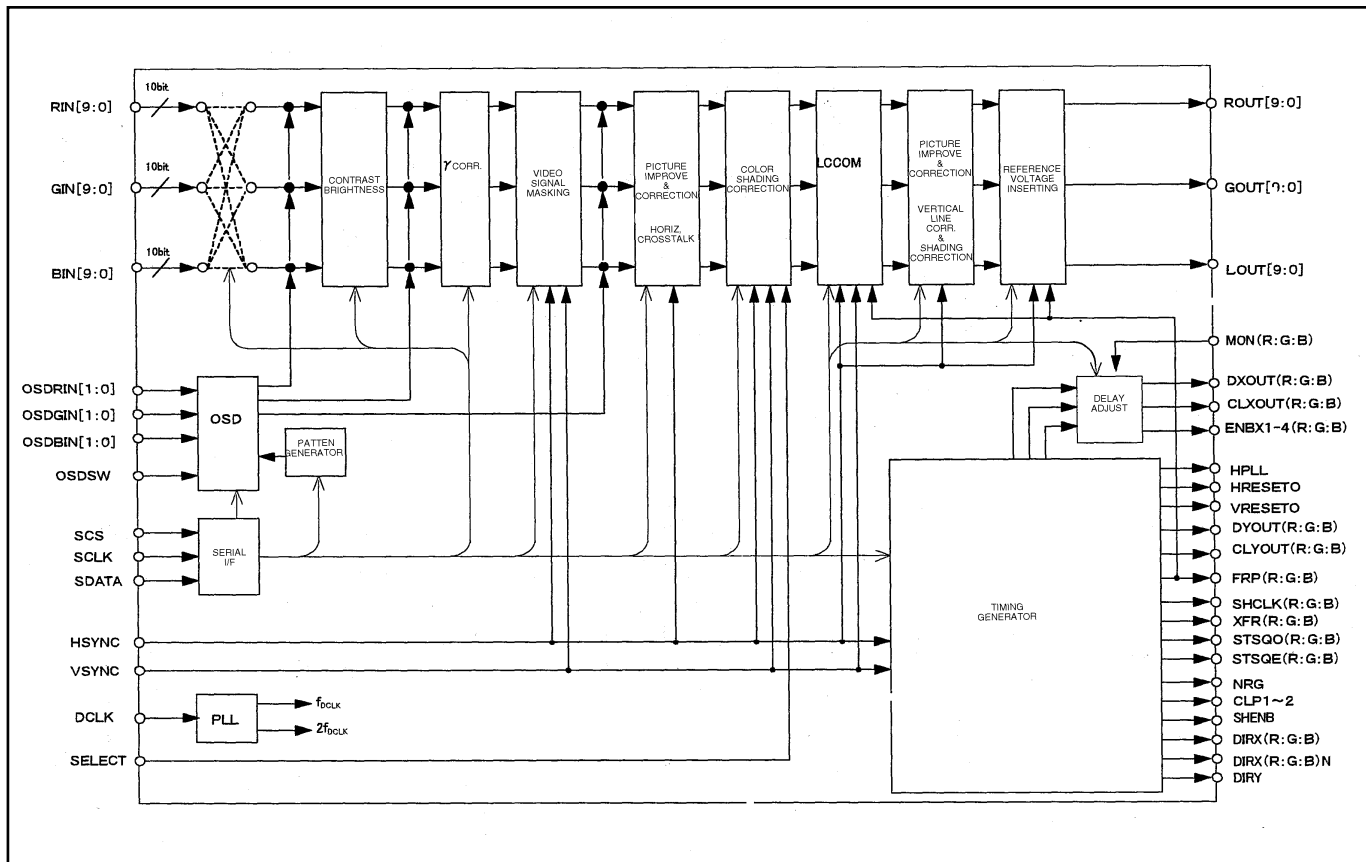
● BA7078AF <Sync-Separation, IC5321>



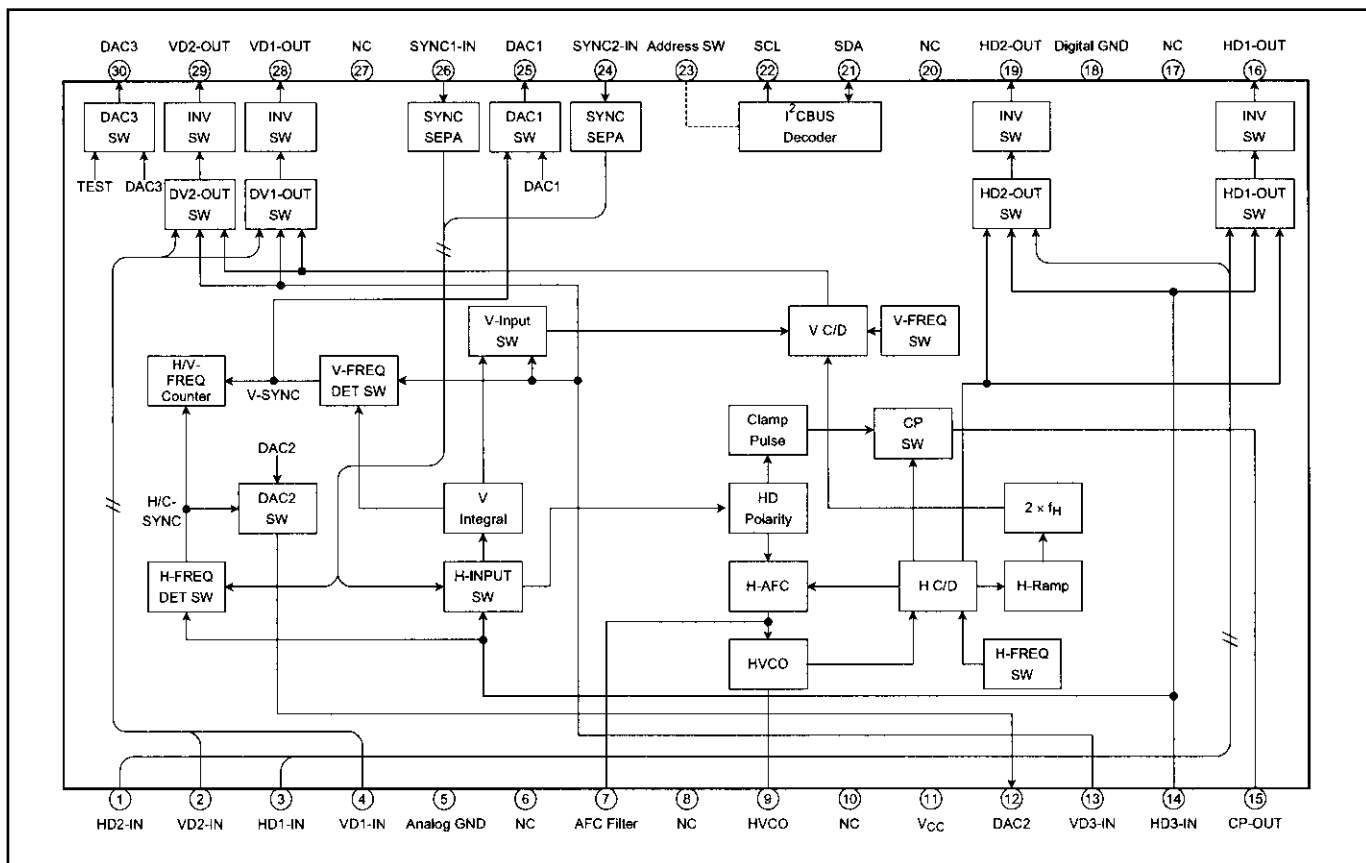
● BA9743AFV <IC371>



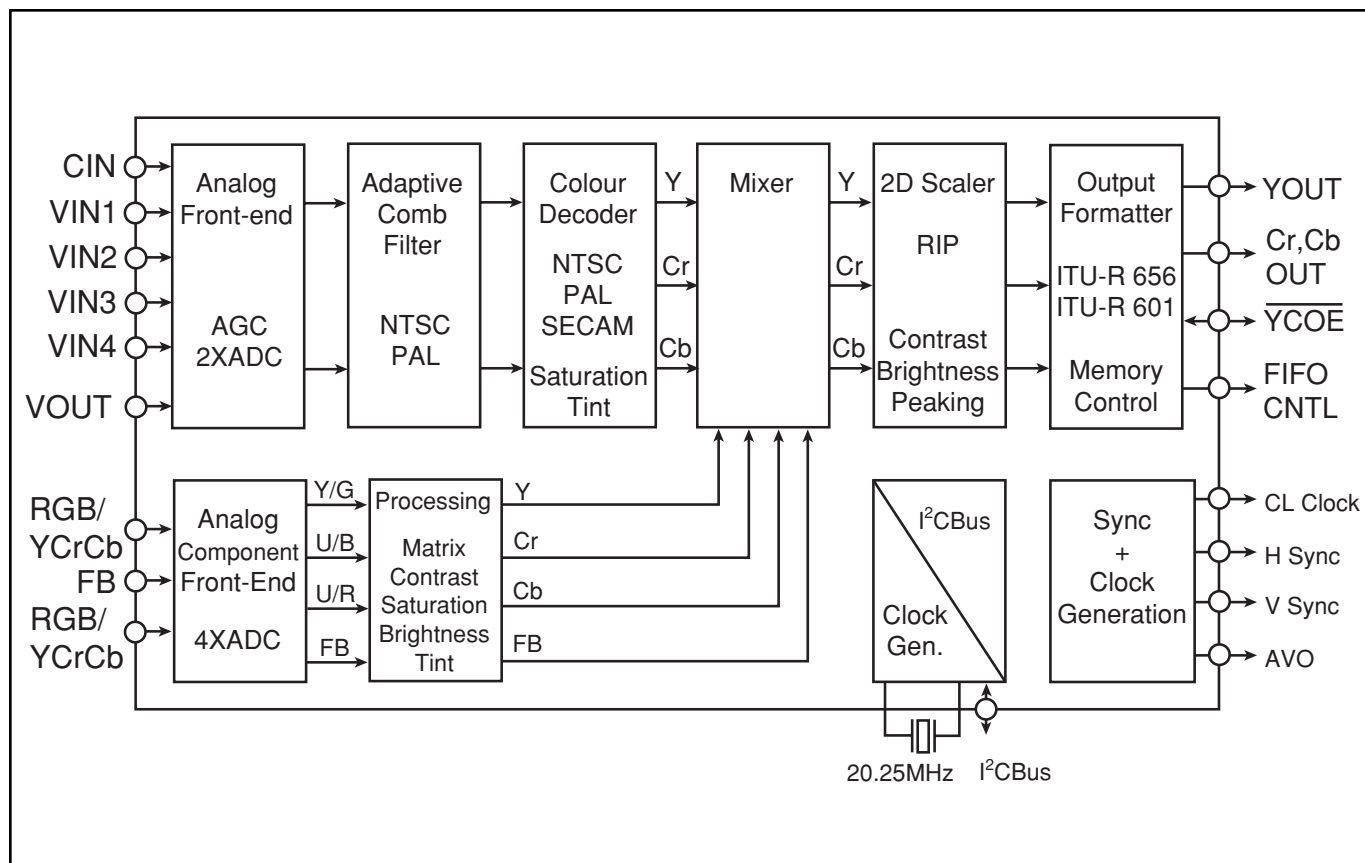
● L3E07070K0A <Color Shading Correction, IC401>



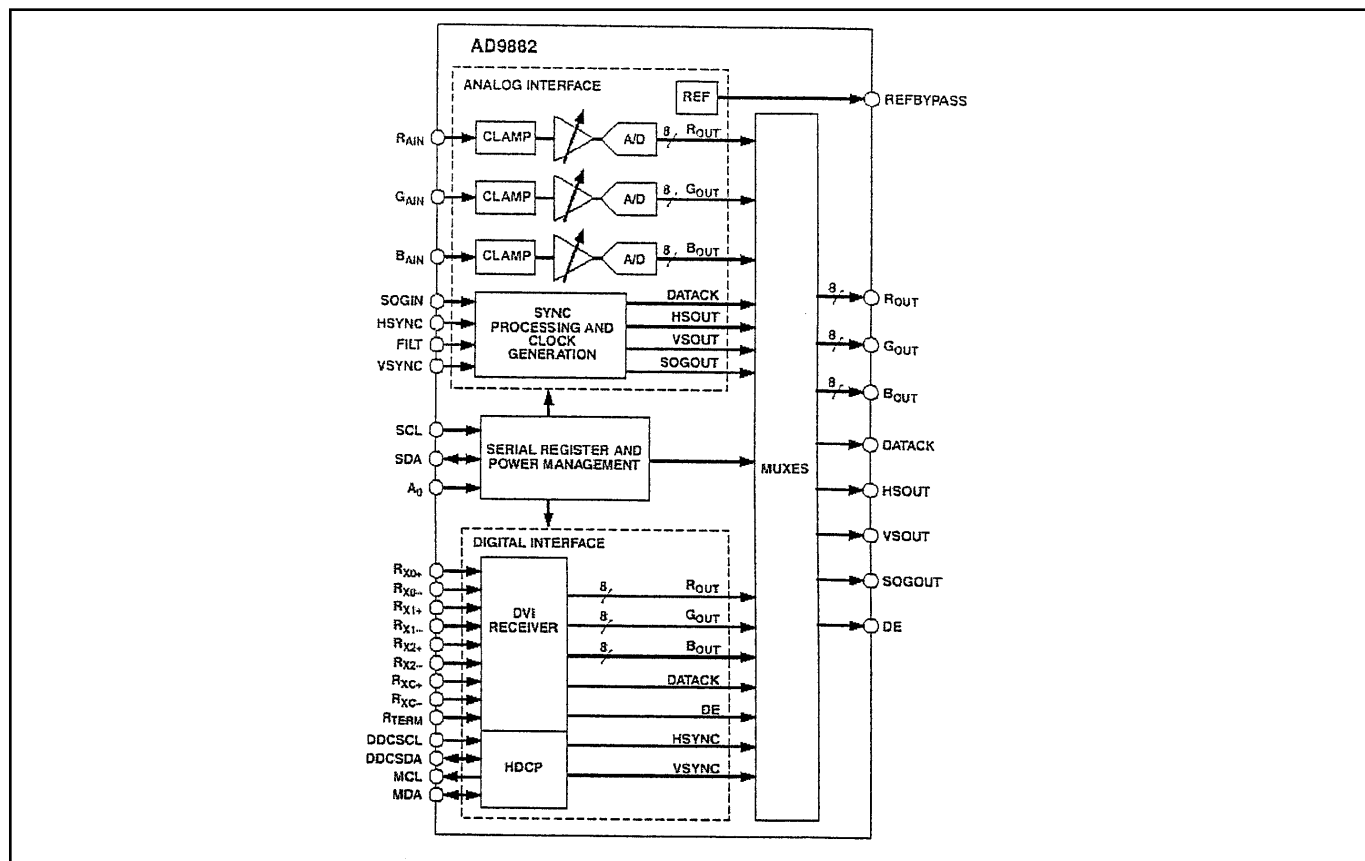
● TA1370FG <Sync-Separation, IC5341>



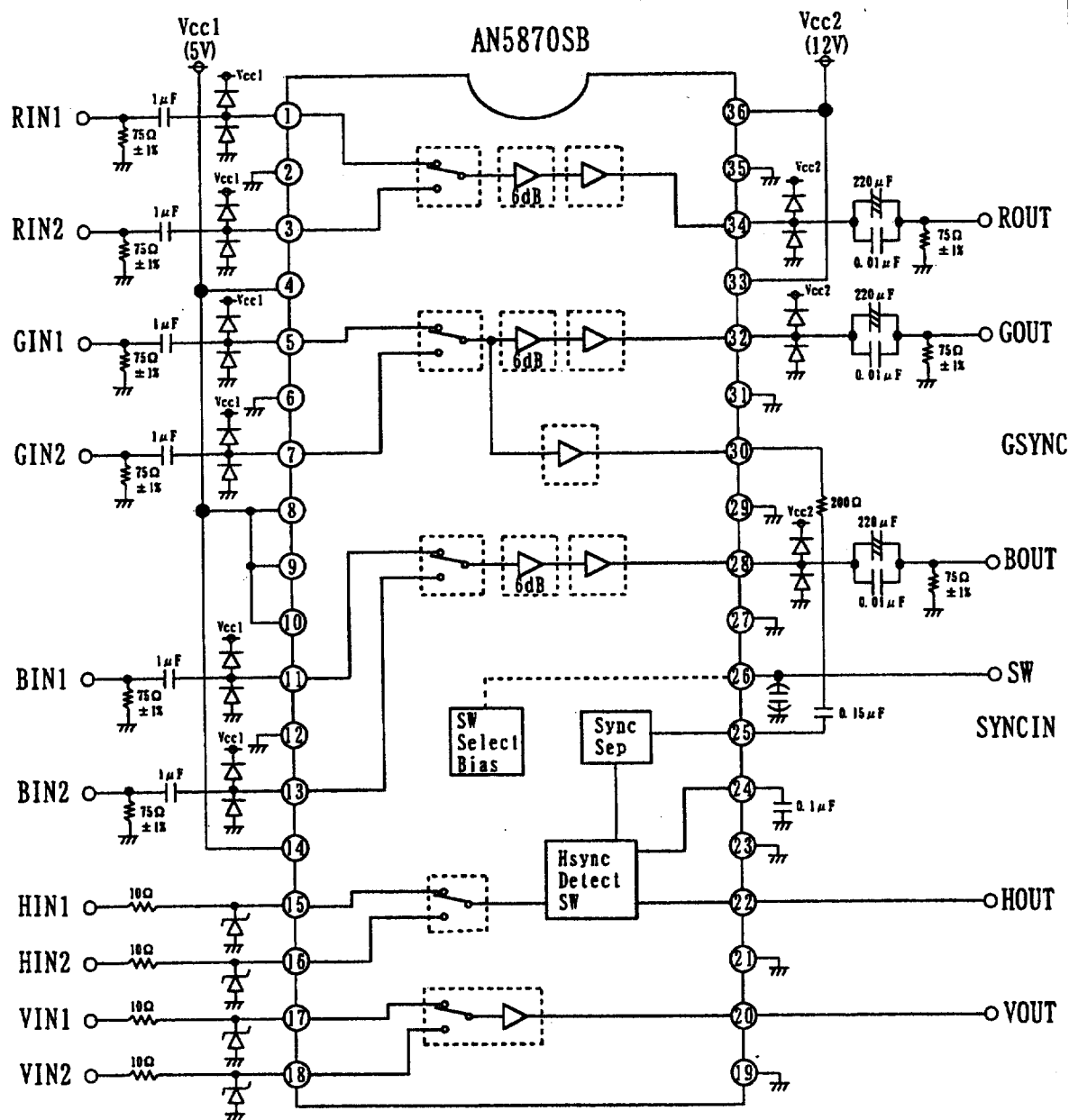
● VPC3230D <Video Decoder, IC101>



● AD9882KST <A/D, IC8201>



● AN5870SB <PC/AV SW, IC5201>



Electrical Parts List

Product safety should be considered when a component replacement is made in any area of a projector. Components indicated by a \triangle mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark.

● Read Description in the parts list

Read description in the Capacitor and Resistor as follows:

CAPACITOR	CERAMIC	100P	K	50V
				Rated Voltage
				Tolerance Symbols:
				Less than 10pF
				A : Not specified B : $\pm 0.1\text{pF}$ C : $\pm 0.25\text{pF}$
				D : $\pm 0.5\text{pF}$ E : $+0 -1\text{pF}$ F : $\pm 1\text{PF}$
				G : $\pm 2\text{pF}$ H : $+0.1 -0\text{pF}$ L : $+0 -0.1\text{pF}$
				R : $\pm 0.25 -0\text{pF}$ S : $+0 -0.25\text{pF}$
				More than 10pF
				A : Not specified B : $\pm 0.1\%$ C : $\pm 0.25\%$
				D : $\pm 0.5\%$ F : $\pm 1\%$ G : $\pm 2\%$
				H : $\pm 3\%$ J : $\pm 5\%$ K : $\pm 10\%$
				L : $\pm 15\%$ M : $\pm 20\%$ N : $\pm 30\%$
				P : $+100-0\%$ Q : $+30-10\%$ T : $+50-10\%$
				U : $+75-10\%$ V : $+20-10\%$ W : $+100-10\%$
				X : $+40-20\%$ Y : $+150-10\%$ Z : $+80-20\%$
				Rated value: P=pico farad, U=micro farad

Material:

CERAMIC..... Ceramic
 MT-PAPER..... Metallized Paper
 POLYESTER..... Polyester
 MT-POLYEST..... Metallized Polyester
 POLYPRO..... Polypropylene
 MT-POLYPRO..... Metallized Polypropylene
 COMPO FILM..... Composite film
 MT-COMPO..... Metallized Composite
 STYRENE..... Styrene
 TA-SOLID..... Tantalum Oxide Solid Electrolytic
 AL-SOLID..... Aluminium Solid Electrolytic
 ELECT..... Aluminum Foil Electrolytic
 NP-ELECT..... Non-polarised Electrolytic
 OS-SOLID..... Aluminium Solid with Organic Semiconductive Electrolytic
 POS-SOLID..... Polymerized Organic Semiconductive
 DL-ELECT..... Double Layered Electrolytic
 PPS-FILM..... Polyphenylene Sulfide Film
 MT-PPS-FILM..... Metalized Polyphenylene Sulfide Film
 MT-PEN-FILM..... Metalized Polyethylenenaphthalate Film
 CAPACITOR..... Other

RESISTOR	CARBON	4.7K	J	A	1/4W
					Rated Wattage
					Performance Symbols:
					A: General B: Non flammable Z: Low noise
					Other: Temperature coefficient
					T: $\pm 10\text{ppm}/^\circ\text{C}$ U: $\pm 25\text{ppm}/^\circ\text{C}$ C: $\pm 50\text{ppm}/^\circ\text{C}$
					D: $\pm 100\text{ppm}/^\circ\text{C}$ E: $\pm 200\text{ppm}/^\circ\text{C}$ F: $\pm 250\text{ppm}/^\circ\text{C}$
					G: $\pm 350\text{ppm}/^\circ\text{C}$ H: $\pm 1000\text{ppm}/^\circ\text{C}\pm 10\%$ W: $\pm 1200\text{ppm}/^\circ\text{C}\pm 10\%$
					Y: $\pm 1400\text{ppm}/^\circ\text{C}\pm 10\%$ J: $\pm 2000\text{ppm}/^\circ\text{C}\pm 10\%$ K: $\pm 2400\text{ppm}/^\circ\text{C}\pm 10\%$
					L: $\pm 2700\text{ppm}/^\circ\text{C}\pm 10\%$ M: $\pm 3000\text{ppm}/^\circ\text{C}\pm 10\%$ N: $\pm 3300\text{ppm}/^\circ\text{C}\pm 10\%$
					P: $\pm 3600\text{ppm}/^\circ\text{C}\pm 10\%$ Q: $\pm 3900\text{ppm}/^\circ\text{C}\pm 10\%$ R: $\pm 4200\text{ppm}/^\circ\text{C}\pm 10\%$
					S: $\pm 4300\text{ppm}/^\circ\text{C}\pm 10\%$ V: $\pm 4500\text{ppm}/^\circ\text{C}\pm 10\%$ X: $\pm 8000\text{ppm}/^\circ\text{C}\pm 10\%$
					Tolerance Symbols:
					A: $\pm 0.05\%$ B: $\pm 0.1\%$ C: $\pm 0.25\%$ D: $\pm 0.5\%$
					F: $\pm 1\%$ G: $\pm 2\%$ J: $\pm 5\%$ K: $\pm 10\%$
					M: $\pm 20\%$ P: $\pm 5-15\%$ Z: 0 ohm
					Rated value, ohms:
					K: 1,000, M: 1,000,000

Material:

CARBON..... Carbon
 MT-FILM..... Metal Film
 OXIDE-MT..... Oxide Metal Film
 SOLID..... Composition
 MT-GLAZE..... Metal Glaze
 WIRE WOUND... Wire Wound
 CERAMIC RES.. Ceramic
 FUSIBLE RES.... Fusible
 RESISTOR Other

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
OUT OF CIRCUIT BOARD					
△ LP901	610 309 7589	COMPL, OPTICAL LMP-M4KA		405 002 6904	TR 2SA1179-M7-TB
L901	645 040 2593	CORE, FERRITE		405 163 1503	TR 2SA1179N-M6-TB
L902	645 065 4510	CORE, FERRITE		405 163 2708	TR 2SA1179N-M7-TB
MISCELLANEOUS				405 173 9605	TR 2SA1235A1E
△ A601	645 061 9151	UNIT, POWER		405 173 9704	TR 2SA1235A1F
△ A901	645 061 9168	UNIT, BALLAST	Q5311	405 014 4509	TR 2SC2412K T146 R
△ FN901	645 062 5145	MOTOR, FAN DC 2.28W		405 014 4608	TR 2SC2412K T146 S
△ FN902	645 062 5398	MOTOR, FAN DC 2.65W		405 015 8704	TR 2SC2812-L6-TB
△ FN903	645 063 9463	MOTOR, FAN DC 2.04W		405 015 8902	TR 2SC2812-L7-TB
△ FN904	645 062 5572	MOTOR, FAN DC 2.65W		405 163 1602	TR 2SC2812N-L6-TB0
△ FN905	645 062 5572	MOTOR, FAN DC 2.65W		405 163 1701	TR 2SC2812N-L7-TB0
△ SW902	645 026 5457	SWITCH, THERMAL		405 173 9803	TR 2SC3928A1R
	645 048 3158	SWITCH, THERMAL	Q5312	405 173 9902	TR 2SC3928A1S
610 307 8892 ASSY,PWB,MAIN M4KA 1AA0B10C4780A				405 014 4509	TR 2SC2412K T146 R
TRANSISTOR				405 014 4608	TR 2SC2412K T146 S
Q1841	405 045 8705	TR 2SK536-TB		405 015 8704	TR 2SC2812-L6-TB
Q1842	405 045 8705	TR 2SK536-TB		405 015 8902	TR 2SC2812-L7-TB
Q1843	405 045 8705	TR 2SK536-TB		405 163 1602	TR 2SC2812N-L6-TB0
Q1844	405 045 8705	TR 2SK536-TB		405 163 1701	TR 2SC2812N-L7-TB0
Q1891	405 014 4509	TR 2SC2412K T146 R		405 173 9803	TR 2SC3928A1R
	405 014 4608	TR 2SC2412K T146 S		405 173 9902	TR 2SC3928A1S
	405 015 8704	TR 2SC2812-L6-TB	Q5621	405 002 8304	TR 2SA1203-Y-TE12L
	405 015 8902	TR 2SC2812-L7-TB	Q5622	405 014 4509	TR 2SC2412K T146 R
	405 163 1602	TR 2SC2812N-L6-TB0		405 014 4608	TR 2SC2412K T146 S
	405 163 1701	TR 2SC2812N-L7-TB0		405 015 8704	TR 2SC2812-L6-TB
	405 173 9803	TR 2SC3928A1R		405 015 8902	TR 2SC2812-L7-TB
	405 173 9902	TR 2SC3928A1S		405 163 1602	TR 2SC2812N-L6-TB0
Q301	405 045 8705	TR 2SK536-TB		405 163 1701	TR 2SC2812N-L7-TB0
Q371	406 017 8402	TR RTQ025P02-TR		405 173 9803	TR 2SC3928A1R
Q372	406 017 8402	TR RTQ025P02-TR		405 173 9902	TR 2SC3928A1S
Q4601	405 002 8304	TR 2SA1203-Y-TE12L	Q5641	405 002 8304	TR 2SA1203-Y-TE12L
Q4603	405 014 4509	TR 2SC2412K T146 R	Q5642	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S		405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB		405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB		405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0		405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0		405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R		405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S		405 173 9902	TR 2SC3928A1S
Q5301	405 014 4509	TR 2SC2412K T146 R	Q6201	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S		405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB		405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB		405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0		405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0		405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R		405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S		405 173 9902	TR 2SC3928A1S
Q5302	405 134 5905	TR 2SA1037AK-T146-R		405 014 4509	TR 2SC2412K T146 R
	405 147 2205	TR 2SA1037AK-S-T146		405 014 4608	TR 2SC2412K T146 S
	405 002 0308	TR 2SA1037K T146 R		405 015 8704	TR 2SC2812-L6-TB
	405 002 0407	TR 2SA1037K T146 S		405 015 8902	TR 2SC2812-L7-TB
	405 002 6706	TR 2SA1179-M6-TB		405 163 1602	TR 2SC2812N-L6-TB0
	405 002 6904	TR 2SA1179-M7-TB		405 163 1701	TR 2SC2812N-L7-TB0
	405 163 1503	TR 2SA1179N-M6-TB		405 173 9803	TR 2SC3928A1R
	405 163 2708	TR 2SA1179N-M7-TB		405 173 9902	TR 2SC3928A1S
	405 173 9605	TR 2SA1235A1E	Q6211	405 014 4509	TR 2SC2412K T146 R
	405 173 9704	TR 2SA1235A1F		405 014 4608	TR 2SC2412K T146 S
Q5303	405 134 5905	TR 2SA1037AK-T146-R		405 015 8704	TR 2SC2812-L6-TB
	405 147 2205	TR 2SA1037AK-S-T146		405 015 8902	TR 2SC2812-L7-TB
	405 002 0308	TR 2SA1037K T146 R		405 163 1602	TR 2SC2812N-L6-TB0
	405 002 0407	TR 2SA1037K T146 S		405 163 1701	TR 2SC2812N-L7-TB0
	405 002 6706	TR 2SA1179-M6-TB		405 173 9803	TR 2SC3928A1R
				405 173 9902	TR 2SC3928A1S
			Q6212	405 014 4509	TR 2SC2412K T146 R
				405 014 4608	TR 2SC2412K T146 S
				405 015 8704	TR 2SC2812-L6-TB
				405 015 8902	TR 2SC2812-L7-TB

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
Q6221	405 163 1602	TR 2SC2812N-L6-TB0	Q8101	405 163 1701	TR 2SC2812N-L7-TB0
	405 163 1701	TR 2SC2812N-L7-TB0		405 173 9803	TR 2SC3928A1R
	405 173 9803	TR 2SC3928A1R		405 173 9902	TR 2SC3928A1S
	405 173 9902	TR 2SC3928A1S		405 014 4509	TR 2SC2412K T146 R
	405 014 4509	TR 2SC2412K T146 R		405 014 4608	TR 2SC2412K T146 S
	405 014 4608	TR 2SC2412K T146 S		405 015 8704	TR 2SC2812-L6-TB
	405 015 8704	TR 2SC2812-L6-TB		405 015 8902	TR 2SC2812-L7-TB
	405 015 8902	TR 2SC2812-L7-TB		405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1602	TR 2SC2812N-L6-TB0		405 163 1701	TR 2SC2812N-L7-TB0
	405 163 1701	TR 2SC2812N-L7-TB0	Q8111	405 173 9803	TR 2SC3928A1R
Q6222	405 173 9803	TR 2SC3928A1R		405 173 9902	TR 2SC3928A1S
	405 173 9902	TR 2SC3928A1S		405 045 8705	TR 2SK536-TB
	405 014 4509	TR 2SC2412K T146 R		405 045 8705	TR 2SK536-TB
	405 014 4608	TR 2SC2412K T146 S		405 014 4509	TR 2SC2412K T146 R
	405 015 8704	TR 2SC2812-L6-TB		405 014 4608	TR 2SC2412K T146 S
	405 015 8902	TR 2SC2812-L7-TB		405 015 8704	TR 2SC2812-L6-TB
	405 163 1602	TR 2SC2812N-L6-TB0		405 015 8902	TR 2SC2812-L7-TB
	405 163 1701	TR 2SC2812N-L7-TB0		405 163 1602	TR 2SC2812N-L6-TB0
	405 173 9803	TR 2SC3928A1R		405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9902	TR 2SC3928A1S	Q8131	405 173 9803	TR 2SC3928A1R
Q6231	405 014 4509	TR 2SC2412K T146 R		405 173 9902	TR 2SC3928A1S
	405 014 4608	TR 2SC2412K T146 S		405 045 8705	TR 2SK536-TB
	405 015 8704	TR 2SC2812-L6-TB		405 045 8705	TR 2SK536-TB
	405 015 8902	TR 2SC2812-L7-TB		405 014 4509	TR 2SC2412K T146 R
	405 163 1602	TR 2SC2812N-L6-TB0		405 014 4608	TR 2SC2412K T146 S
	405 163 1701	TR 2SC2812N-L7-TB0		405 015 8704	TR 2SC2812-L6-TB
	405 173 9803	TR 2SC3928A1R		405 015 8902	TR 2SC2812-L7-TB
	405 173 9902	TR 2SC3928A1S		405 163 1602	TR 2SC2812N-L6-TB0
	405 014 4509	TR 2SC2412K T146 R		405 163 1701	TR 2SC2812N-L7-TB0
	405 014 4608	TR 2SC2412K T146 S	Q8201	405 173 9803	TR 2SC3928A1R
Q6241	405 015 8704	TR 2SC2812-L6-TB		405 173 9902	TR 2SC3928A1S
	405 015 8902	TR 2SC2812-L7-TB		405 045 8705	TR 2SK536-TB
	405 163 1602	TR 2SC2812N-L6-TB0		405 045 8705	TR 2SK536-TB
	405 163 1701	TR 2SC2812N-L7-TB0		405 014 4509	TR 2SC2412K T146 R
	405 173 9803	TR 2SC3928A1R		405 014 4608	TR 2SC2412K T146 S
	405 173 9902	TR 2SC3928A1S		405 015 8704	TR 2SC2812-L6-TB
	405 014 4509	TR 2SC2412K T146 R		405 015 8902	TR 2SC2812-L7-TB
	405 014 4608	TR 2SC2412K T146 S		405 163 1602	TR 2SC2812N-L6-TB0
	405 015 8704	TR 2SC2812-L6-TB		405 163 1701	TR 2SC2812N-L7-TB0
	405 015 8902	TR 2SC2812-L7-TB	Q8851	405 173 9803	TR 2SC3928A1R
Q6251	405 163 1602	TR 2SC2812N-L6-TB0		405 173 9902	TR 2SC3928A1S
	405 163 1701	TR 2SC2812N-L7-TB0		405 045 8705	TR 2SK536-TB
	405 173 9803	TR 2SC3928A1R		405 045 8705	TR 2SK536-TB
	405 173 9902	TR 2SC3928A1S		406 018 3307	TR 2SD1383K T146 B
	405 014 4509	TR 2SC2412K T146 R		406 018 3307	TR 2SD1383K T146 B
	405 014 4608	TR 2SC2412K T146 S	INTEGRATED CIRCUIT		
	405 015 8704	TR 2SC2812-L6-TB	IC101	410 401 4604	IC VPC3230D-QA-B3
	405 015 8902	TR 2SC2812-L7-TB	IC1301	409 501 9107	IC ICS512MT
	405 163 1602	TR 2SC2812N-L6-TB0	IC1321	409 462 2407	IC TC7S208FU- (TE85L)
	405 163 1701	TR 2SC2812N-L7-TB0	IC1501	409 560 6604	IC L3E06110D0A
Q6271	405 173 9803	TR 2SC3928A1R	IC151	409 539 8905	IC PQ033EZ01ZP
	405 173 9902	TR 2SC3928A1S	IC1801	410 346 8804	IC TC74LCX574FT
	405 014 4509	TR 2SC2412K T146 R	IC1802	410 346 8804	IC TC74LCX574FT
	405 014 4608	TR 2SC2412K T146 S	IC1803	410 346 8804	IC TC74LCX574FT
	405 015 8704	TR 2SC2812-L6-TB	IC1811	410 362 6501	IC TC74LCX541FT
	405 015 8902	TR 2SC2812-L7-TB	IC1831	410 362 6501	IC TC74LCX541FT
	405 163 1602	TR 2SC2812N-L6-TB0	IC1841	409 533 6006	IC 24LC32AT-I/SN
	405 163 1701	TR 2SC2812N-L7-TB0	IC1861	410 337 0602	IC HD74LVC14T
	405 173 9803	TR 2SC3928A1R	IC1871	409 347 5400	IC M51204FP-600C
	405 173 9902	TR 2SC3928A1S	IC1881	409 431 6009	IC MC74VHC14DT
Q6281	405 134 5905	TR 2SA1037AK-T146-R	IC1882	410 499 0809	IC PIC12F675-I/SNC322A
	405 147 2205	TR 2SA1037AK-S-T146	IC1883	409 400 9208	IC TC7SET32FU- (TE85L)
	405 002 0308	TR 2SA1037K T146 R	IC1891	409 422 5202	IC MC74ACT00DT
	405 002 0407	TR 2SA1037K T146 S	IC1895	409 155 8105	IC TC7SU04F- (TE85L)
	405 002 6706	TR 2SA1179-M6-TB	IC1897	409 155 8006	IC TC7S04F-TE85L
	405 002 6904	TR 2SA1179-M7-TB	IC2501	409 560 6604	IC L3E06110D0A
	405 163 1503	TR 2SA1179N-M6-TB	IC301	409 556 2900	IC PW168A-10V
	405 163 2708	TR 2SA1179N-M7-TB	IC341	409 480 1307	IC PST573IM
	405 173 9605	TR 2SA1235A1E	IC351	409 350 2908	IC TC7W126FU- (TE12L)
	405 173 9704	TR 2SA1235A1F	IC361	409 520 5609	IC TC7WZ32FU
Q7821	405 014 4509	TR 2SC2412K T146 R	IC371	409 555 6305	IC BA9743AFV-E2
	405 014 4608	TR 2SC2412K T146 S	IC392	409 534 1703	IC SI-3025LSA-TL
	405 015 8704	TR 2SC2812-L6-TB	IC401	409 554 1301	IC L3E07070K0A
	405 015 8902	TR 2SC2812-L7-TB	IC4501	409 428 9600	IC M62399FP
	405 163 1602	TR 2SC2812N-L6-TB0	IC4531	409 428 9600	IC M62399FP
			IC4551	409 246 9707	IC LA6358NM-TE-L

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
IC491	409 555 6404	IC SI-3018KS-TL	C144	403 155 1609	CERAMIC 33P J 50V
IC501	409 560 6604	IC L3E06110D0A	C146	403 155 1609	CERAMIC 33P J 50V
IC5321	409 484 2003	IC BA7078AF-E2	C147	403 281 5205	CERAMIC 0.22U Z 16V
IC5341	409 545 7503	IC TA1370FG	C148	403 281 5205	CERAMIC 0.22U Z 16V
IC5351	409 124 5708	IC L78M09T-TR	C149	403 281 5205	CERAMIC 0.22U Z 16V
IC5361	410 488 3408	IC TC74LVX125FT	C1501	403 164 0204	CERAMIC 0.1U Z 25V
IC5631	409 539 8905	IC PQ033EZ01ZP	C1502	403 164 0204	CERAMIC 0.1U Z 25V
IC5641	409 124 5906	IC L78M12T-TL	C1507	403 164 0204	CERAMIC 0.1U Z 25V
IC801	410 510 4809	IC MBM29DL32TF70C326B	C151	403 281 5205	CERAMIC 0.22U Z 16V
IC801A	410 480 1006	IC MBM29DL32TF70TN	C1512	403 164 0204	CERAMIC 0.1U Z 25V
IC8101	410 358 1503	IC TC74HC4053AFT(EL)	C1513	403 164 0204	CERAMIC 0.1U Z 25V
IC8111	409 417 5507	IC 24LC04BT/SN	C1514	403 164 0204	CERAMIC 0.1U Z 25V
IC8121	410 358 1503	IC TC74HC4053AFT(EL)	C152	403 281 5205	CERAMIC 0.22U Z 16V
IC8131	409 417 5507	IC 24LC04BT/SN	C1521	403 164 0204	CERAMIC 0.1U Z 25V
IC8141	409 451 2807	IC TC7W66FK-(TE85L)	C1522	403 164 0204	CERAMIC 0.1U Z 25V
IC8151	409 451 2807	IC TC7W66FK-(TE85L)	C1523	403 164 0204	CERAMIC 0.1U Z 25V
IC8161	410 495 1107	IC 24LC04BT/SNP-C356	C1524	403 164 0204	CERAMIC 0.1U Z 25V
IC8201	410 476 5605	IC AD9882KST-100	C1525	403 164 0204	CERAMIC 0.1U Z 25V
IC8251	409 439 8906	IC TC7WH125FU	C1526	403 164 0204	CERAMIC 0.1U Z 25V
IC8801	409 481 8602	IC LM76CHMX-5	C1527	403 164 0204	CERAMIC 0.1U Z 25V
IC8802	409 481 8602	IC LM76CHMX-5	C153	403 281 5205	CERAMIC 0.22U Z 16V
IC9401	410 403 7900	IC LC24085BT-UG4	C1531	403 229 3508	ELECT 100U M 16V
IC9801	409 466 6906	IC SP232ECT		403 335 0408	ELECT 100U M 16V
CAPACITOR			C1532	403 164 0204	CERAMIC 0.1U Z 25V
C104	403 281 5205	CERAMIC 0.22U Z 16V	C1533	403 164 0204	CERAMIC 0.1U Z 25V
C105	403 215 0900	CERAMIC 390P J 50V	C1534	403 164 0204	CERAMIC 0.1U Z 25V
C106	403 281 5205	CERAMIC 0.22U Z 16V	C1536	403 164 0204	CERAMIC 0.1U Z 25V
C107	403 281 5205	CERAMIC 0.22U Z 16V	C1537	403 164 0204	CERAMIC 0.1U Z 25V
C108	403 281 5205	CERAMIC 0.22U Z 16V	C1538	403 164 0204	CERAMIC 0.1U Z 25V
C109	403 157 3304	CERAMIC 68P J 50V	C1539	403 164 0204	CERAMIC 0.1U Z 25V
C111	403 379 6701	CERAMIC 10U K 16V	C154	403 379 6701	CERAMIC 10U K 16V
C112	403 205 2808	CERAMIC 0.047U K 25V	C156	403 164 0204	CERAMIC 0.1U Z 25V
C113	403 281 5205	CERAMIC 0.22U Z 16V	C157	403 322 7809	ELECT 220U M 6.3V
C114	403 155 2101	CERAMIC 1500P K 50V		403 349 4706	ELECT 220U M 6.3V
C116	403 215 0900	CERAMIC 390P J 50V	C158	403 164 0204	CERAMIC 0.1U Z 25V
C117	403 281 5205	CERAMIC 0.22U Z 16V	C1801	403 164 0204	CERAMIC 0.1U Z 25V
C118	403 379 6701	CERAMIC 10U K 16V	C1802	403 164 0204	CERAMIC 0.1U Z 25V
C119	403 205 2808	CERAMIC 0.047U K 25V	C1803	403 164 0204	CERAMIC 0.1U Z 25V
C121	403 215 0900	CERAMIC 390P J 50V	C1811	403 164 0204	CERAMIC 0.1U Z 25V
C122	403 155 2101	CERAMIC 1500P K 50V	C1831	403 164 0204	CERAMIC 0.1U Z 25V
C123	403 281 5205	CERAMIC 0.22U Z 16V	C1841	403 164 0204	CERAMIC 0.1U Z 25V
C124	403 157 1508	CERAMIC 3P C 50V	C1863	403 164 0204	CERAMIC 0.1U Z 25V
C125	403 322 7809	ELECT 220U M 6.3V	C1871	403 283 6309	CERAMIC 1U Z 10V
	403 349 4706	ELECT 220U M 6.3V	C1872	403 283 6309	CERAMIC 1U Z 10V
C126	403 157 1508	CERAMIC 3P C 50V	C1873	403 283 6309	CERAMIC 1U Z 10V
C127	403 164 0204	CERAMIC 0.1U Z 25V	C1881	403 164 0204	CERAMIC 0.1U Z 25V
C129	403 307 7008	CERAMIC 0.068U K 16V	C1883	403 164 0204	CERAMIC 0.1U Z 25V
C1301	403 164 0204	CERAMIC 0.1U Z 25V	C1889	403 164 0204	CERAMIC 0.1U Z 25V
C1302	403 164 0204	CERAMIC 0.1U Z 25V	C1891	403 164 0204	CERAMIC 0.1U Z 25V
C1306	403 164 0204	CERAMIC 0.1U Z 25V	C1895	403 164 0204	CERAMIC 0.1U Z 25V
C131	403 307 7008	CERAMIC 0.068U K 16V	C1896	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
C132	403 307 7008	CERAMIC 0.068U K 16V	C1899	403 164 0204	CERAMIC 0.1U Z 25V
C1321	403 164 0204	CERAMIC 0.1U Z 25V	C2501	403 164 0204	CERAMIC 0.1U Z 25V
C133	403 307 7008	CERAMIC 0.068U K 16V	C2502	403 164 0204	CERAMIC 0.1U Z 25V
C1331	403 164 0204	CERAMIC 0.1U Z 25V	C2507	403 164 0204	CERAMIC 0.1U Z 25V
C1332	403 164 0204	CERAMIC 0.1U Z 25V	C2512	403 164 0204	CERAMIC 0.1U Z 25V
C1336	403 304 1801	ELECT 100U M 6.3V	C2513	403 164 0204	CERAMIC 0.1U Z 25V
	403 373 7704	ELECT 100U M 6.3V	C2514	403 164 0204	CERAMIC 0.1U Z 25V
C1338	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	C2521	403 164 0204	CERAMIC 0.1U Z 25V
C134	403 155 2101	CERAMIC 1500P K 50V	C2522	403 164 0204	CERAMIC 0.1U Z 25V
C136	403 205 2808	CERAMIC 0.047U K 25V	C2523	403 164 0204	CERAMIC 0.1U Z 25V
C137	403 164 0204	CERAMIC 0.1U Z 25V	C2524	403 164 0204	CERAMIC 0.1U Z 25V
C139	403 281 5205	CERAMIC 0.22U Z 16V	C2525	403 164 0204	CERAMIC 0.1U Z 25V
C141	403 155 2101	CERAMIC 1500P K 50V	C2526	403 164 0204	CERAMIC 0.1U Z 25V
C142	403 215 0900	CERAMIC 390P J 50V	C2527	403 164 0204	CERAMIC 0.1U Z 25V
C143	403 155 1609	CERAMIC 33P J 50V	C2531	403 229 3508	ELECT 100U M 16V
				403 335 0408	ELECT 100U M 16V

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
C2532	403 164 0204	CERAMIC 0.1U Z 25V	C381	403 215 2102	CERAMIC 8200P K 50V
C2533	403 164 0204	CERAMIC 0.1U Z 25V	C382	403 280 0805	ELECT 330U M 6.3V
C2534	403 164 0204	CERAMIC 0.1U Z 25V	C384	403 215 2102	CERAMIC 8200P K 50V
C2536	403 164 0204	CERAMIC 0.1U Z 25V	C386	403 347 5507	POS-SOLID 470U M 4V
C2537	403 164 0204	CERAMIC 0.1U Z 25V	C387	403 164 0204	CERAMIC 0.1U Z 25V
C2538	403 164 0204	CERAMIC 0.1U Z 25V	C388	403 164 0204	CERAMIC 0.1U Z 25V
C2539	403 164 0204	CERAMIC 0.1U Z 25V	C391	403 164 0204	CERAMIC 0.1U Z 25V
C302	403 164 0204	CERAMIC 0.1U Z 25V	C392	403 175 0606	ELECT 100U M 6.3V
C303	403 164 0204	CERAMIC 0.1U Z 25V	C393	403 215 2102	CERAMIC 8200P K 50V
C306	403 164 0204	CERAMIC 0.1U Z 25V	C394	403 347 5507	POS-SOLID 470U M 4V
C307	403 164 0204	CERAMIC 0.1U Z 25V	C396	403 164 0204	CERAMIC 0.1U Z 25V
C309	403 164 0204	CERAMIC 0.1U Z 25V	C401	403 164 0204	CERAMIC 0.1U Z 25V
C311	403 164 0204	CERAMIC 0.1U Z 25V	C402	403 215 2201	CERAMIC 0.01U K 50V
C312	403 164 0204	CERAMIC 0.1U Z 25V	C411	403 149 9208	CERAMIC 0.01U Z 50V
C313	403 164 0204	CERAMIC 0.1U Z 25V	C412	403 283 6309	CERAMIC 1U Z 10V
C314	403 164 0204	CERAMIC 0.1U Z 25V	C413	403 149 9208	CERAMIC 0.01U Z 50V
C316	403 164 0204	CERAMIC 0.1U Z 25V	C414	403 149 9208	CERAMIC 0.01U Z 50V
C317	403 164 0204	CERAMIC 0.1U Z 25V	C416	403 164 0204	CERAMIC 0.1U Z 25V
C318	403 164 0204	CERAMIC 0.1U Z 25V	C419	403 149 9208	CERAMIC 0.01U Z 50V
C319	403 164 0204	CERAMIC 0.1U Z 25V	C420	403 378 3107	CERAMIC 47U Z 6.3V
C321	403 164 0204	CERAMIC 0.1U Z 25V	C421	403 283 6309	CERAMIC 1U Z 10V
C322	403 164 0204	CERAMIC 0.1U Z 25V	C422	403 149 9208	CERAMIC 0.01U Z 50V
C323	403 164 0204	CERAMIC 0.1U Z 25V	C423	403 149 9208	CERAMIC 0.01U Z 50V
C324	403 164 0204	CERAMIC 0.1U Z 25V	C424	403 149 9208	CERAMIC 0.01U Z 50V
C326	403 164 0204	CERAMIC 0.1U Z 25V	C426	403 149 9208	CERAMIC 0.01U Z 50V
C327	403 164 0204	CERAMIC 0.1U Z 25V	C427	403 149 9208	CERAMIC 0.01U Z 50V
C328	403 164 0204	CERAMIC 0.1U Z 25V	C428	403 149 9208	CERAMIC 0.01U Z 50V
C329	403 164 0204	CERAMIC 0.1U Z 25V	C429	403 149 9208	CERAMIC 0.01U Z 50V
C331	403 164 0204	CERAMIC 0.1U Z 25V	C431	403 149 9208	CERAMIC 0.01U Z 50V
C332	403 164 0204	CERAMIC 0.1U Z 25V	C432	403 149 9208	CERAMIC 0.01U Z 50V
C333	403 164 0204	CERAMIC 0.1U Z 25V	C433	403 149 9208	CERAMIC 0.01U Z 50V
C337	403 164 0204	CERAMIC 0.1U Z 25V	C434	403 149 9208	CERAMIC 0.01U Z 50V
C338	403 164 0204	CERAMIC 0.1U Z 25V	C436	403 149 9208	CERAMIC 0.01U Z 50V
C339	403 139 7306	CERAMIC 18P J 50V	C437	403 149 9208	CERAMIC 0.01U Z 50V
C341	403 139 7306	CERAMIC 18P J 50V	C438	403 149 9208	CERAMIC 0.01U Z 50V
C343	403 283 6309	CERAMIC 1U Z 10V	C439	403 149 9208	CERAMIC 0.01U Z 50V
C344	403 164 0204	CERAMIC 0.1U Z 25V	C4501	403 164 0204	CERAMIC 0.1U Z 25V
C3501	403 164 0204	CERAMIC 0.1U Z 25V	C4503	403 164 0204	CERAMIC 0.1U Z 25V
C3503	403 164 0204	CERAMIC 0.1U Z 25V	C4504	403 164 0204	CERAMIC 0.1U Z 25V
C3504	403 164 0204	CERAMIC 0.1U Z 25V	C4531	403 164 0204	CERAMIC 0.1U Z 25V
C3506	403 164 0204	CERAMIC 0.1U Z 25V	C4532	403 378 3107	CERAMIC 47U Z 6.3V
C3507	403 229 3508	ELECT 100U M 16V	C4533	403 164 0204	CERAMIC 0.1U Z 25V
	403 335 0408	ELECT 100U M 16V	C4534	403 164 0204	CERAMIC 0.1U Z 25V
C352	403 149 9208	CERAMIC 0.01U Z 50V	C4551	403 164 0204	CERAMIC 0.1U Z 25V
C353	403 149 9208	CERAMIC 0.01U Z 50V	C4553	403 164 0204	CERAMIC 0.1U Z 25V
C3531	403 164 0204	CERAMIC 0.1U Z 25V	C4554	403 164 0204	CERAMIC 0.1U Z 25V
C3533	403 164 0204	CERAMIC 0.1U Z 25V	C4601	403 322 7809	ELECT 220U M 6.3V
C3534	403 164 0204	CERAMIC 0.1U Z 25V		403 349 4706	ELECT 220U M 6.3V
C3536	403 164 0204	CERAMIC 0.1U Z 25V	C4603	403 280 1604	ELECT 220U M 16V
C3537	403 229 3508	ELECT 100U M 16V	C4604	403 322 7809	ELECT 220U M 6.3V
	403 335 0408	ELECT 100U M 16V		403 349 4706	ELECT 220U M 6.3V
C354	403 164 0204	CERAMIC 0.1U Z 25V	C4651	403 229 3508	ELECT 100U M 16V
C3561	403 164 0204	CERAMIC 0.1U Z 25V		403 335 0408	ELECT 100U M 16V
C3563	403 164 0204	CERAMIC 0.1U Z 25V	C4652	403 229 3508	ELECT 100U M 16V
C3564	403 164 0204	CERAMIC 0.1U Z 25V		403 335 0408	ELECT 100U M 16V
C3566	403 164 0204	CERAMIC 0.1U Z 25V	C4653	403 229 3508	ELECT 100U M 16V
C3567	403 229 3508	ELECT 100U M 16V		403 335 0408	ELECT 100U M 16V
	403 335 0408	ELECT 100U M 16V	C4654	403 229 3508	ELECT 100U M 16V
C360	403 113 3805	CERAMIC 1000P K 50V		403 335 0408	ELECT 100U M 16V
C371	403 283 6309	CERAMIC 1U Z 10V	C491	403 149 9208	CERAMIC 0.01U Z 50V
C372	403 164 0204	CERAMIC 0.1U Z 25V	C492	403 164 0204	CERAMIC 0.1U Z 25V
C373	403 164 0204	CERAMIC 0.1U Z 25V	C493	403 304 1801	ELECT 100U M 6.3V
C374	403 281 5205	CERAMIC 0.22U Z 16V		403 373 7704	ELECT 100U M 6.3V
C376	403 113 4109	CERAMIC 2200P K 50V	C494	403 304 1801	ELECT 100U M 6.3V
C377	403 164 0204	CERAMIC 0.1U Z 25V		403 373 7704	ELECT 100U M 6.3V
C378	403 280 0805	ELECT 330U M 6.3V	C501	403 164 0204	CERAMIC 0.1U Z 25V
C379	403 169 2807	CERAMIC 330P J 50V	C502	403 164 0204	CERAMIC 0.1U Z 25V

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
C507	403 164 0204	CERAMIC 0.1U Z 25V	C7218	403 304 1801	ELECT 100U M 6.3V
C512	403 164 0204	CERAMIC 0.1U Z 25V		403 373 7704	ELECT 100U M 6.3V
C513	403 164 0204	CERAMIC 0.1U Z 25V	C7219	403 164 0204	CERAMIC 0.1U Z 25V
C514	403 164 0204	CERAMIC 0.1U Z 25V	C801	403 378 3107	CERAMIC 47U Z 6.3V
C521	403 164 0204	CERAMIC 0.1U Z 25V	C802	403 164 0204	CERAMIC 0.1U Z 25V
C522	403 164 0204	CERAMIC 0.1U Z 25V	C8101	403 164 0204	CERAMIC 0.1U Z 25V
C523	403 164 0204	CERAMIC 0.1U Z 25V	C8102	403 164 0204	CERAMIC 0.1U Z 25V
C524	403 164 0204	CERAMIC 0.1U Z 25V	C8103	403 379 6701	CERAMIC 10U K 16V
C525	403 164 0204	CERAMIC 0.1U Z 25V	C8111	403 164 0204	CERAMIC 0.1U Z 25V
C526	403 164 0204	CERAMIC 0.1U Z 25V	C8121	403 164 0204	CERAMIC 0.1U Z 25V
C527	403 164 0204	CERAMIC 0.1U Z 25V	C8131	403 164 0204	CERAMIC 0.1U Z 25V
C5302	403 164 0204	CERAMIC 0.1U Z 25V	C8201	403 322 7809	ELECT 220U M 6.3V
C5303	403 316 5408	CERAMIC 1U K 10V		403 349 4706	ELECT 220U M 6.3V
C5304	403 283 6309	CERAMIC 1U Z 10V	C8202	403 164 0204	CERAMIC 0.1U Z 25V
C531	403 229 3508	ELECT 100U M 16V	C8203	403 322 7809	ELECT 220U M 6.3V
	403 335 0408	ELECT 100U M 16V		403 349 4706	ELECT 220U M 6.3V
C532	403 164 0204	CERAMIC 0.1U Z 25V	C8204	403 164 0204	CERAMIC 0.1U Z 25V
C5321	403 164 0204	CERAMIC 0.1U Z 25V	C8205	403 164 0204	CERAMIC 0.1U Z 25V
C5322	403 372 7507	CERAMIC 2.2U K 6.3V	C8206	403 164 0204	CERAMIC 0.1U Z 25V
C5323	403 348 5803	CERAMIC 0.47U K 10V	C8207	403 164 0204	CERAMIC 0.1U Z 25V
C5324	403 364 5801	CERAMIC 1U K 10V	C8209	403 157 3809	CERAMIC 120P J 50V
C5326	403 348 5803	CERAMIC 0.47U K 10V	C8210	403 164 0204	CERAMIC 0.1U Z 25V
C5327	403 372 7507	CERAMIC 2.2U K 6.3V	C8211	403 164 0204	CERAMIC 0.1U Z 25V
C5328	403 364 5801	CERAMIC 1U K 10V	C8212	403 164 0204	CERAMIC 0.1U Z 25V
C533	403 164 0204	CERAMIC 0.1U Z 25V	C8213	403 164 0204	CERAMIC 0.1U Z 25V
C5331	403 157 3601	CERAMIC 100P J 50V	C8214	403 145 9905	CERAMIC 22P J 50V
C5332	403 164 0204	CERAMIC 0.1U Z 25V	C8216	403 205 2808	CERAMIC 0.047U K 25V
C5333	403 304 1801	ELECT 100U M 6.3V	C8217	403 164 0204	CERAMIC 0.1U Z 25V
	403 373 7704	ELECT 100U M 6.3V	C8218	403 145 9905	CERAMIC 22P J 50V
C534	403 164 0204	CERAMIC 0.1U Z 25V	C8219	403 205 2808	CERAMIC 0.047U K 25V
C5341	403 215 2201	CERAMIC 0.01U K 50V	C8221	403 164 0204	CERAMIC 0.1U Z 25V
C5342	403 205 7803	TA-SOLID 2.2U M 16V	C8222	403 145 9905	CERAMIC 22P J 50V
C5343	403 229 3508	ELECT 100U M 16V	C8223	403 205 2808	CERAMIC 0.047U K 25V
	403 335 0408	ELECT 100U M 16V	C8224	403 164 0204	CERAMIC 0.1U Z 25V
C5344	403 164 0204	CERAMIC 0.1U Z 25V	C8226	403 283 2905	CERAMIC 0.082U K 16V
C5348	403 372 7507	CERAMIC 2.2U K 6.3V	C8227	403 215 2102	CERAMIC 8200P K 50V
C5352	403 164 0204	CERAMIC 0.1U Z 25V	C8228	403 164 0204	CERAMIC 0.1U Z 25V
C536	403 164 0204	CERAMIC 0.1U Z 25V	C8229	403 164 0204	CERAMIC 0.1U Z 25V
C5361	403 164 0204	CERAMIC 0.1U Z 25V	C8230	403 164 0204	CERAMIC 0.1U Z 25V
C537	403 164 0204	CERAMIC 0.1U Z 25V	C8231	403 164 0204	CERAMIC 0.1U Z 25V
C538	403 164 0204	CERAMIC 0.1U Z 25V	C8232	403 164 0204	CERAMIC 0.1U Z 25V
C539	403 164 0204	CERAMIC 0.1U Z 25V	C8233	403 164 0204	CERAMIC 0.1U Z 25V
C5622	403 164 0204	CERAMIC 0.1U Z 25V	C8251	403 164 0204	CERAMIC 0.1U Z 25V
C5623	403 304 1801	ELECT 100U M 6.3V	C8801	403 155 1609	CERAMIC 33P J 50V
	403 373 7704	ELECT 100U M 6.3V	C8802	403 155 1609	CERAMIC 33P J 50V
C5624	403 164 0204	CERAMIC 0.1U Z 25V	C8803	403 164 0204	CERAMIC 0.1U Z 25V
C5627	403 304 1801	ELECT 100U M 6.3V	C8804	403 155 1609	CERAMIC 33P J 50V
	403 373 7704	ELECT 100U M 6.3V	C8806	403 155 1609	CERAMIC 33P J 50V
C5632	403 304 1801	ELECT 100U M 6.3V	C8807	403 164 0204	CERAMIC 0.1U Z 25V
	403 373 7704	ELECT 100U M 6.3V	C8851	403 164 0204	CERAMIC 0.1U Z 25V
C5633	403 304 1801	ELECT 100U M 6.3V	C8852	403 280 0805	ELECT 330U M 6.3V
	403 373 7704	ELECT 100U M 6.3V	C9402	403 164 0204	CERAMIC 0.1U Z 25V
C5635	403 164 0204	CERAMIC 0.1U Z 25V	C9403	403 164 0204	CERAMIC 0.1U Z 25V
C5641	403 280 1802	ELECT 100U M 25V	C9404	403 164 0204	CERAMIC 0.1U Z 25V
C5642	403 229 3508	ELECT 100U M 16V	C9406	403 164 0204	CERAMIC 0.1U Z 25V
	403 335 0408	ELECT 100U M 16V	C9407	403 164 0204	CERAMIC 0.1U Z 25V
C6201	403 164 0204	CERAMIC 0.1U Z 25V	C9408	403 164 0204	CERAMIC 0.1U Z 25V
C6202	403 153 9300	CERAMIC 82P J 50V	C9409	403 164 0204	CERAMIC 0.1U Z 25V
C6204	403 322 7809	ELECT 220U M 6.3V	C9411	403 164 0204	CERAMIC 0.1U Z 25V
	403 349 4706	ELECT 220U M 6.3V	C9412	403 164 0204	CERAMIC 0.1U Z 25V
C6212	403 153 9300	CERAMIC 82P J 50V	C9413	403 164 0204	CERAMIC 0.1U Z 25V
C6222	403 153 9300	CERAMIC 82P J 50V	C9414	403 164 0204	CERAMIC 0.1U Z 25V
C6231	403 164 0204	CERAMIC 0.1U Z 25V	C9801	403 323 8805	CERAMIC 2.2U Z 16V
C6271	403 283 6309	CERAMIC 1U Z 10V	C9802	403 323 8805	CERAMIC 2.2U Z 16V
C6281	403 164 0204	CERAMIC 0.1U Z 25V	C9803	403 323 8805	CERAMIC 2.2U Z 16V
C7215	403 304 1801	ELECT 100U M 6.3V	C9804	403 323 8805	CERAMIC 2.2U Z 16V
	403 373 7704	ELECT 100U M 6.3V	C9806	403 283 6309	CERAMIC 1U Z 10V

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
RESISTOR			RB9404	645 037 0663	R-NETWORK 22X4 0.063W
RB101	645 037 0670	R-NETWORK 47X4 0.063W		645 021 4943	R-NETWORK 22X4 1/16W
	645 018 8930	R-NETWORK 47X4 1/16W	RB9406	645 037 0663	R-NETWORK 22X4 0.063W
RB102	645 037 0670	R-NETWORK 47X4 0.063W		645 021 4943	R-NETWORK 22X4 1/16W
	645 018 8930	R-NETWORK 47X4 1/16W	RB9407	645 037 0663	R-NETWORK 22X4 0.063W
RB103	645 037 0670	R-NETWORK 47X4 0.063W		645 021 4943	R-NETWORK 22X4 1/16W
	645 018 8930	R-NETWORK 47X4 1/16W	RB9408	645 037 0663	R-NETWORK 22X4 0.063W
RB104	645 037 0670	R-NETWORK 47X4 0.063W		645 021 4943	R-NETWORK 22X4 1/16W
	645 018 8930	R-NETWORK 47X4 1/16W	RB9409	645 037 0663	R-NETWORK 22X4 0.063W
RB1401	645 037 0663	R-NETWORK 22X4 0.063W		645 021 4943	R-NETWORK 22X4 1/16W
	645 021 4943	R-NETWORK 22X4 1/16W	RB9411	645 037 0663	R-NETWORK 22X4 0.063W
RB1402	645 037 0663	R-NETWORK 22X4 0.063W		645 021 4943	R-NETWORK 22X4 1/16W
	645 021 4943	R-NETWORK 22X4 1/16W	RB9412	645 037 0663	R-NETWORK 22X4 0.063W
RB1403	645 037 0663	R-NETWORK 22X4 0.063W		645 021 4943	R-NETWORK 22X4 1/16W
	645 021 4943	R-NETWORK 22X4 1/16W	RB9413	645 037 0663	R-NETWORK 22X4 0.063W
RB1404	645 037 0663	R-NETWORK 22X4 0.063W		645 021 4943	R-NETWORK 22X4 1/16W
	645 021 4943	R-NETWORK 22X4 1/16W	RB9414	645 037 0663	R-NETWORK 22X4 0.063W
RB1406	645 037 0663	R-NETWORK 22X4 0.063W		645 021 4943	R-NETWORK 22X4 1/16W
	645 021 4943	R-NETWORK 22X4 1/16W	RB9416	645 037 0663	R-NETWORK 22X4 0.063W
RB1407	645 037 0663	R-NETWORK 22X4 0.063W		645 021 4943	R-NETWORK 22X4 1/16W
	645 021 4943	R-NETWORK 22X4 1/16W	R101	401 105 0306	MT-GLAZE 10 JA 1/16W
RB1501	645 037 0656	R-NETWORK 0X4 0.063W	R102	401 105 0306	MT-GLAZE 10 JA 1/16W
	645 024 7477	R-NETWORK 0X4 1/16W	R103	401 105 0306	MT-GLAZE 10 JA 1/16W
RB1502	645 037 0656	R-NETWORK 0X4 0.063W	R104	401 105 5202	MT-GLAZE 470 JA 1/16W
	645 024 7477	R-NETWORK 0X4 1/16W	R109	401 105 0405	MT-GLAZE 100 JA 1/16W
RB1503	645 037 0656	R-NETWORK 0X4 0.063W	R112	401 105 0405	MT-GLAZE 100 JA 1/16W
	645 024 7477	R-NETWORK 0X4 1/16W	R114	401 105 0405	MT-GLAZE 100 JA 1/16W
RB1504	645 037 0656	R-NETWORK 0X4 0.063W	R121	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
	645 024 7477	R-NETWORK 0X4 1/16W	R123	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
RB2501	645 037 0656	R-NETWORK 0X4 0.063W	R128	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
	645 024 7477	R-NETWORK 0X4 1/16W	R1302	401 105 0603	MT-GLAZE 10K JA 1/16W
RB2502	645 037 0656	R-NETWORK 0X4 0.063W	R1306	645 049 0248	IMPEDANCE, 120 OHM P
	645 024 7477	R-NETWORK 0X4 1/16W	R131	401 105 5103	MT-GLAZE 47 JA 1/16W
RB2503	645 037 0656	R-NETWORK 0X4 0.063W	R1321	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
	645 024 7477	R-NETWORK 0X4 1/16W	R1322	401 105 0405	MT-GLAZE 100 JA 1/16W
RB2504	645 037 0656	R-NETWORK 0X4 0.063W	R1323	645 049 0293	IMPEDANCE, 220 OHM P
	645 024 7477	R-NETWORK 0X4 1/16W	R134	401 105 5103	MT-GLAZE 47 JA 1/16W
RB4531	645 037 4920	R-NETWORK 3.3KX4 0.063W	R136	401 105 5103	MT-GLAZE 47 JA 1/16W
	645 031 4070	R-NETWORK 3.3KX4 1/16W	R138	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
RB4532	645 021 0426	R-NETWORK 4.7KX4 0.063W	R1381	401 105 0405	MT-GLAZE 100 JA 1/16W
	645 024 7460	R-NETWORK 4.7KX4 1/16W	R1382	401 105 0405	MT-GLAZE 100 JA 1/16W
RB501	645 037 0656	R-NETWORK 0X4 0.063W	R1383	401 105 4106	MT-GLAZE 3.3K JA 1/16W
	645 024 7477	R-NETWORK 0X4 1/16W	R1384	401 105 0603	MT-GLAZE 10K JA 1/16W
RB502	645 037 0656	R-NETWORK 0X4 0.063W	R1386	401 105 0603	MT-GLAZE 10K JA 1/16W
	645 024 7477	R-NETWORK 0X4 1/16W	R1387	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
RB503	645 037 0656	R-NETWORK 0X4 0.063W	R1389	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
	645 024 7477	R-NETWORK 0X4 1/16W	R1391	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
RB504	645 037 0656	R-NETWORK 0X4 0.063W	R1401	401 105 0306	MT-GLAZE 10 JA 1/16W
	645 024 7477	R-NETWORK 0X4 1/16W	R1402	401 105 0306	MT-GLAZE 10 JA 1/16W
RB8201	645 037 0663	R-NETWORK 22X4 0.063W	R1403	401 105 0306	MT-GLAZE 10 JA 1/16W
	645 021 4943	R-NETWORK 22X4 1/16W	R1404	401 105 0306	MT-GLAZE 10 JA 1/16W
RB8202	645 037 0663	R-NETWORK 22X4 0.063W	R1406	401 105 0306	MT-GLAZE 10 JA 1/16W
	645 021 4943	R-NETWORK 22X4 1/16W	R1407	401 105 0306	MT-GLAZE 10 JA 1/16W
RB8203	645 037 0663	R-NETWORK 22X4 0.063W	R1409	401 105 0306	MT-GLAZE 10 JA 1/16W
	645 021 4943	R-NETWORK 22X4 1/16W	R141	401 105 0405	MT-GLAZE 100 JA 1/16W
RB8204	645 037 0663	R-NETWORK 22X4 0.063W	R1411	401 105 0306	MT-GLAZE 10 JA 1/16W
	645 021 4943	R-NETWORK 22X4 1/16W	R1412	401 105 0306	MT-GLAZE 10 JA 1/16W
RB8206	645 037 0663	R-NETWORK 22X4 0.063W	R1416	401 105 0306	MT-GLAZE 10 JA 1/16W
	645 021 4943	R-NETWORK 22X4 1/16W	R1417	401 105 0306	MT-GLAZE 10 JA 1/16W
RB8207	645 037 0663	R-NETWORK 22X4 0.063W	R1418	401 105 0306	MT-GLAZE 10 JA 1/16W
	645 021 4943	R-NETWORK 22X4 1/16W	R1419	401 105 0306	MT-GLAZE 10 JA 1/16W
RB9401	645 037 0663	R-NETWORK 22X4 0.063W	R142	401 105 0405	MT-GLAZE 100 JA 1/16W
	645 021 4943	R-NETWORK 22X4 1/16W	R1421	401 105 2607	MT-GLAZE 22 JA 1/16W
RB9402	645 037 0663	R-NETWORK 22X4 0.063W	R1422	401 105 2607	MT-GLAZE 22 JA 1/16W
	645 021 4943	R-NETWORK 22X4 1/16W	R1423	401 105 0306	MT-GLAZE 10 JA 1/16W
RB9403	645 037 0663	R-NETWORK 22X4 0.063W	R1424	401 105 0306	MT-GLAZE 10 JA 1/16W
	645 021 4943	R-NETWORK 22X4 1/16W	R1426	401 105 0306	MT-GLAZE 10 JA 1/16W

Key No. Part No. Description						Key No. Part No. Description					
R1427	401 105 0306	MT-GLAZE	10	JA	1/16W	R1833	401 105 7909	MT-GLAZE	0.000	ZA	1/16W
R1428	401 105 0306	MT-GLAZE	10	JA	1/16W	R1834	401 105 7909	MT-GLAZE	0.000	ZA	1/16W
R1429	401 105 7909	MT-GLAZE	0.000	ZA	1/16W	R1836	401 105 7909	MT-GLAZE	0.000	ZA	1/16W
R143	401 105 0405	MT-GLAZE	100	JA	1/16W	R1837	401 105 7909	MT-GLAZE	0.000	ZA	1/16W
R1432	401 105 0306	MT-GLAZE	10	JA	1/16W	R1838	401 105 7909	MT-GLAZE	0.000	ZA	1/16W
R1433	401 105 0306	MT-GLAZE	10	JA	1/16W	R1840	401 105 0306	MT-GLAZE	10	JA	1/16W
R1437	401 105 0306	MT-GLAZE	10	JA	1/16W	R1841	401 105 0306	MT-GLAZE	10	JA	1/16W
R1438	401 105 0306	MT-GLAZE	10	JA	1/16W	R1842	401 105 0306	MT-GLAZE	10	JA	1/16W
R1439	401 105 0306	MT-GLAZE	10	JA	1/16W	R1843	401 105 0306	MT-GLAZE	10	JA	1/16W
R1442	401 105 0306	MT-GLAZE	10	JA	1/16W	R1844	401 105 4106	MT-GLAZE	3.3K	JA	1/16W
R1443	401 105 2607	MT-GLAZE	22	JA	1/16W	R1846	401 105 4106	MT-GLAZE	3.3K	JA	1/16W
R1444	401 105 2607	MT-GLAZE	22	JA	1/16W	R1847	401 105 5301	MT-GLAZE	4.7K	JA	1/16W
R1446	401 105 7909	MT-GLAZE	0.000	ZA	1/16W	R1848	401 105 5301	MT-GLAZE	4.7K	JA	1/16W
R1447	401 105 0306	MT-GLAZE	10	JA	1/16W	R1849	401 105 4106	MT-GLAZE	3.3K	JA	1/16W
R1448	401 105 0306	MT-GLAZE	10	JA	1/16W	R1851	401 105 4106	MT-GLAZE	3.3K	JA	1/16W
R1449	401 105 0306	MT-GLAZE	10	JA	1/16W	R1852	401 105 5301	MT-GLAZE	4.7K	JA	1/16W
R1451	401 105 0306	MT-GLAZE	10	JA	1/16W	R1853	401 105 5301	MT-GLAZE	4.7K	JA	1/16W
R1452	401 105 0306	MT-GLAZE	10	JA	1/16W	R1861	401 105 5905	MT-GLAZE	560	JA	1/16W
R1453	401 105 0306	MT-GLAZE	10	JA	1/16W	R1863	401 105 0405	MT-GLAZE	100	JA	1/16W
R1456	401 105 0306	MT-GLAZE	10	JA	1/16W	R1864	401 105 7909	MT-GLAZE	0.000	ZA	1/16W
R1457	401 105 0306	MT-GLAZE	10	JA	1/16W	R1866	401 105 7909	MT-GLAZE	0.000	ZA	1/16W
R1461	401 105 0306	MT-GLAZE	10	JA	1/16W	R1867	401 105 7909	MT-GLAZE	0.000	ZA	1/16W
R1462	401 105 0306	MT-GLAZE	10	JA	1/16W	R1871	401 105 0603	MT-GLAZE	10K	JA	1/16W
R1463	401 105 0306	MT-GLAZE	10	JA	1/16W	R1872	401 105 0306	MT-GLAZE	10	JA	1/16W
R1464	401 105 0306	MT-GLAZE	10	JA	1/16W	R1873	401 105 1105	MT-GLAZE	12K	JA	1/16W
R1467	401 105 2607	MT-GLAZE	22	JA	1/16W	R1874	401 105 2508	MT-GLAZE	20K	JA	1/16W
R1468	401 105 7909	MT-GLAZE	0.000	ZA	1/16W	R1877	401 105 0603	MT-GLAZE	10K	JA	1/16W
R1469	401 105 2607	MT-GLAZE	22	JA	1/16W	R1881	401 105 2706	MT-GLAZE	220	JA	1/16W
R1471	401 105 0405	MT-GLAZE	100	JA	1/16W	R1882	401 105 2706	MT-GLAZE	220	JA	1/16W
R1472	401 105 0504	MT-GLAZE	1K	JA	1/16W	R1884	401 105 7909	MT-GLAZE	0.000	ZA	1/16W
R1473	401 105 7909	MT-GLAZE	0.000	ZA	1/16W	R1886	401 105 7909	MT-GLAZE	0.000	ZA	1/16W
R1501	401 105 0405	MT-GLAZE	100	JA	1/16W	R1887	401 105 0504	MT-GLAZE	1K	JA	1/16W
R1502	401 105 0405	MT-GLAZE	100	JA	1/16W	R1888	401 105 7909	MT-GLAZE	0.000	ZA	1/16W
R1503	401 105 0405										

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
R303	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R413	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R304	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R414	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R305	401 105 0306	MT-GLAZE 10 JA 1/16W	R416	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R306	401 105 0306	MT-GLAZE 10 JA 1/16W	R417	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R308	401 105 0306	MT-GLAZE 10 JA 1/16W	R418	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R311	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R419	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R314	401 105 0603	MT-GLAZE 10K JA 1/16W	R421	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R316	401 105 4007	MT-GLAZE 330 JA 1/16W	R422	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R317	401 105 6506	MT-GLAZE 680 JA 1/16W	R423	401 105 0405	MT-GLAZE 100 JA 1/16W
R318	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R424	401 105 0405	MT-GLAZE 100 JA 1/16W
R320	401 105 0504	MT-GLAZE 1K JA 1/16W	R425	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R322	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R426	401 105 0306	MT-GLAZE 10 JA 1/16W
R324	401 105 0603	MT-GLAZE 10K JA 1/16W	R428	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R327	401 105 0603	MT-GLAZE 10K JA 1/16W	R429	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R329	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R431	401 105 2508	MT-GLAZE 20K JA 1/16W
R331	401 105 0306	MT-GLAZE 10 JA 1/16W	R432	401 113 4402	MT-GLAZE 75 JA 1/16W
R332	401 105 0306	MT-GLAZE 10 JA 1/16W	R433	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R333	401 105 0306	MT-GLAZE 10 JA 1/16W	R434	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R334	401 105 0306	MT-GLAZE 10 JA 1/16W	R436	401 105 0306	MT-GLAZE 10 JA 1/16W
R336	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R438	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R339	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R439	401 105 0306	MT-GLAZE 10 JA 1/16W
R341	645 049 0293	IMPEDANCE,220 OHM P	R4501	401 105 0405	MT-GLAZE 100 JA 1/16W
R342	401 105 0306	MT-GLAZE 10 JA 1/16W	R4502	401 105 0405	MT-GLAZE 100 JA 1/16W
R343	401 105 0306	MT-GLAZE 10 JA 1/16W	R4503	401 105 0306	MT-GLAZE 10 JA 1/16W
R3501	645 049 7230	IMPEDANCE,1000 OHM P	R4511	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3502	401 105 8104	MT-GLAZE 56K JA 1/16W	R4512	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R351	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4513	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R353	401 105 0702	MT-GLAZE 100K JA 1/16W	R4516	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R3531	645 049 7230	IMPEDANCE,1000 OHM P	R4517	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R3532	401 105 8104	MT-GLAZE 56K JA 1/16W	R4518	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R354	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4521	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R3561	645 049 7230	IMPEDANCE,1000 OHM P	R4522	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R3562	401 105 8104	MT-GLAZE 56K JA 1/16W	R4523	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R358	401 105 1501	MT-GLAZE 1.5K JA 1/16W	R4531	401 105 0405	MT-GLAZE 100 JA 1/16W
R359	401 105 5905	MT-GLAZE 560 JA 1/16W	R4532	401 105 0405	MT-GLAZE 100 JA 1/16W
R361	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4536	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R362	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4537	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R364	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4541	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R366	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4546	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R367	401 105 0504	MT-GLAZE 1K JA 1/16W	R4547	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R368	401 105 0504	MT-GLAZE 1K JA 1/16W	R4548	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R371	401 105 4700	MT-GLAZE 39K JA 1/16W	R4549	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R372	401 113 8301	MT-GLAZE 62K JA 1/16W	R4551	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R373	401 105 4700	MT-GLAZE 39K JA 1/16W	R4552	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R374	401 113 8301	MT-GLAZE 62K JA 1/16W	R4553	401 105 0603	MT-GLAZE 10K JA 1/16W
R376	401 113 6703	MT-GLAZE 9.1K JA 1/16W	R4554	401 105 4601	MT-GLAZE 3.9K JA 1/16W
R377	401 113 6703	MT-GLAZE 9.1K JA 1/16W	R4556	401 113 6604	MT-GLAZE 7.5K JA 1/16W
R378	401 113 6703	MT-GLAZE 9.1K JA 1/16W	R4557	401 113 6604	MT-GLAZE 7.5K JA 1/16W
R379	401 113 6703	MT-GLAZE 9.1K JA 1/16W	R4558	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R381	401 105 2508	MT-GLAZE 20K JA 1/16W	R4559	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R382	401 113 4204	MT-GLAZE 51 JA 1/16W	R4601	401 105 0603	MT-GLAZE 10K JA 1/16W
R383	401 105 4007	MT-GLAZE 330 JA 1/16W	R4602	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R384	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R4603	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R386	401 113 6208	MT-GLAZE 3.6K JA 1/16W	R4606	401 276 4707	MT-GLAZE 0.000 ZA 1/3W
R387	401 105 2102	MT-GLAZE 18K JA 1/16W	R4652	401 105 0405	MT-GLAZE 100 JA 1/16W
R388	401 105 4007	MT-GLAZE 330 JA 1/16W	R4656	401 105 0306	MT-GLAZE 10 JA 1/16W
R389	401 113 4204	MT-GLAZE 51 JA 1/16W	R4657	401 105 0306	MT-GLAZE 10 JA 1/16W
R391	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4658	401 105 0306	MT-GLAZE 10 JA 1/16W
R392	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R4659	401 105 0306	MT-GLAZE 10 JA 1/16W
R393	401 105 3802	MT-GLAZE 30K JA 1/16W	R4811	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R394	401 105 2102	MT-GLAZE 18K JA 1/16W	R4812	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R396	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4814	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R400	645 050 2972	IMPEDANCE,600 OHM P	R4816	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R401	401 105 0306	MT-GLAZE 10 JA 1/16W	R4817	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R402	401 105 0306	MT-GLAZE 10 JA 1/16W	R4821	401 260 4102	MT-GLAZE 75 JA 1/3W
R403	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4822	401 260 4102	MT-GLAZE 75 JA 1/3W
R412	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R491	401 102 7407	MT-GLAZE 10 JA 1W

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
R492	401 102 7407	MT-GLAZE 10 JA 1W	R5641	401 105 0603	MT-GLAZE 10K JA 1/16W
R493	401 105 0405	MT-GLAZE 100 JA 1/16W	R5642	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R501	401 105 0405	MT-GLAZE 100 JA 1/16W	R5643	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R502	401 105 0405	MT-GLAZE 100 JA 1/16W	R6201	401 105 1402	MT-GLAZE 150 JA 1/16W
R503	401 105 0405	MT-GLAZE 100 JA 1/16W	R6203	401 105 5202	MT-GLAZE 470 JA 1/16W
R504	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6204	401 105 4502	MT-GLAZE 390 JA 1/16W
R512	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6207	401 105 0603	MT-GLAZE 10K JA 1/16W
R513	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6211	401 105 1402	MT-GLAZE 150 JA 1/16W
R514	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6213	401 105 5202	MT-GLAZE 470 JA 1/16W
R516	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6214	401 105 4502	MT-GLAZE 390 JA 1/16W
R517	401 105 0405	MT-GLAZE 100 JA 1/16W	R6217	401 105 0603	MT-GLAZE 10K JA 1/16W
R518	401 105 0405	MT-GLAZE 100 JA 1/16W	R6221	401 105 1402	MT-GLAZE 150 JA 1/16W
R519	401 105 0405	MT-GLAZE 100 JA 1/16W	R6223	401 105 5202	MT-GLAZE 470 JA 1/16W
R521	401 105 0405	MT-GLAZE 100 JA 1/16W	R6224	401 105 4502	MT-GLAZE 390 JA 1/16W
R522	401 105 0405	MT-GLAZE 100 JA 1/16W	R6227	401 105 0603	MT-GLAZE 10K JA 1/16W
R524	401 105 0405	MT-GLAZE 100 JA 1/16W	R6231	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R5301	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R6232	401 105 5400	MT-GLAZE 47K JA 1/16W
R5302	401 105 2805	MT-GLAZE 2.2K JA 1/16W	R6233	401 105 0504	MT-GLAZE 1K JA 1/16W
R5303	401 105 0504	MT-GLAZE 1K JA 1/16W	R6241	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R5304	401 105 8203	MT-GLAZE 68K JA 1/16W	R6242	401 105 5400	MT-GLAZE 47K JA 1/16W
R5306	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6243	401 105 0504	MT-GLAZE 1K JA 1/16W
R5308	401 105 6605	MT-GLAZE 6.8K JA 1/16W	R6251	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R531	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6252	401 105 5400	MT-GLAZE 47K JA 1/16W
R5311	401 105 0405	MT-GLAZE 100 JA 1/16W	R6253	401 105 0504	MT-GLAZE 1K JA 1/16W
R5312	401 105 0504	MT-GLAZE 1K JA 1/16W	R6271	401 105 0504	MT-GLAZE 1K JA 1/16W
R5313	401 105 0405	MT-GLAZE 100 JA 1/16W	R6281	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R5314	401 105 0504	MT-GLAZE 1K JA 1/16W	R6282	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R532	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6283	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R5321	401 105 0405	MT-GLAZE 100 JA 1/16W	R6284	401 105 0405	MT-GLAZE 100 JA 1/16W
R5322	401 105 0405	MT-GLAZE 100 JA 1/16W	R6285	401 105 0405	MT-GLAZE 100 JA 1/16W
R5323	401 105 0405	MT-GLAZE 100 JA 1/16W	R6286	401 105 0405	MT-GLAZE 100 JA 1/16W
R5324	401 105 8005	MT-GLAZE 1M JA 1/16W	R6287	401 105 0405	MT-GLAZE 100 JA 1/16W
R533	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6288	401 105 0405	MT-GLAZE 100 JA 1/16W
R5331	401 105 4601	MT-GLAZE 3.9K JA 1/16W	R6289	401 105 0405	MT-GLAZE 100 JA 1/16W
R5332	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6291	401 105 0405	MT-GLAZE 100 JA 1/16W
R5333	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6292	401 105 0405	MT-GLAZE 100 JA 1/16W
R534	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6801	401 105 5103	MT-GLAZE 47 JA 1/16W
R5341	401 105 6001	MT-GLAZE 5.6K JA 1/16W	R6802	401 105 5103	MT-GLAZE 47 JA 1/16W
R5342	401 113 5201	MT-GLAZE 360 JA 1/16W	R6803	401 105 5103	MT-GLAZE 47 JA 1/16W
R5343	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6806	401 105 5103	MT-GLAZE 47 JA 1/16W
R535	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6807	401 105 5103	MT-GLAZE 47 JA 1/16W
R5351	401 105 0405	MT-GLAZE 100 JA 1/16W	R6808	401 105 5103	MT-GLAZE 47 JA 1/16W
R5352	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R6823	401 105 0306	MT-GLAZE 10 JA 1/16W
R5353	401 105 0405	MT-GLAZE 100 JA 1/16W	R6851	401 105 0306	MT-GLAZE 10 JA 1/16W
R5354	401 105 0405	MT-GLAZE 100 JA 1/16W	R6852	401 105 0306	MT-GLAZE 10 JA 1/16W
R5356	401 105 0405	MT-GLAZE 100 JA 1/16W	R6854	401 105 0306	MT-GLAZE 10 JA 1/16W
R5358	401 105 0603	MT-GLAZE 10K JA 1/16W	R6856	401 105 0306	MT-GLAZE 10 JA 1/16W
R5359	401 105 0405	MT-GLAZE 100 JA 1/16W	R6857	401 105 0306	MT-GLAZE 10 JA 1/16W
R536	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7201	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5361	401 105 0405	MT-GLAZE 100 JA 1/16W	R7231	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5362	401 105 0405	MT-GLAZE 100 JA 1/16W	R7261	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5363	401 105 0405	MT-GLAZE 100 JA 1/16W	R7801	401 105 0603	MT-GLAZE 10K JA 1/16W
R5364	401 105 0405	MT-GLAZE 100 JA 1/16W	R7802	401 105 0603	MT-GLAZE 10K JA 1/16W
R541	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7803	401 105 0603	MT-GLAZE 10K JA 1/16W
R542	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7804	401 105 0603	MT-GLAZE 10K JA 1/16W
R543	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7806	401 105 0603	MT-GLAZE 10K JA 1/16W
R544	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7807	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R547	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7821	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R548	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7823	401 105 0603	MT-GLAZE 10K JA 1/16W
R549	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R801	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5621	401 105 0504	MT-GLAZE 1K JA 1/16W	R802	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5622	401 105 0603	MT-GLAZE 10K JA 1/16W	R803	401 105 0603	MT-GLAZE 10K JA 1/16W
R5623	401 105 0504	MT-GLAZE 1K JA 1/16W	R804	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5626	401 276 4707	MT-GLAZE 0.000 ZA 1/3W	R807	401 105 0603	MT-GLAZE 10K JA 1/16W
R5631	401 105 0405	MT-GLAZE 100 JA 1/16W	R808	401 105 0603	MT-GLAZE 10K JA 1/16W
R5632	401 234 8105	MT-GLAZE 4.7 JA 1W	R8101	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5633	401 234 8105	MT-GLAZE 4.7 JA 1W	R8102	401 105 0603	MT-GLAZE 10K JA 1/16W

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
R8103	401 105 0603	MT-GLAZE 10K JA 1/16W	R8852	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8104	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R8853	401 105 0405	MT-GLAZE 100 JA 1/16W
R8106	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R8854	401 105 0504	MT-GLAZE 1K JA 1/16W
R8107	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R8855	401 105 5400	MT-GLAZE 47K JA 1/16W
R811	401 105 0603	MT-GLAZE 10K JA 1/16W	R8856	401 105 2904	MT-GLAZE 22K JA 1/16W
R8111	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R8857	401 105 0504	MT-GLAZE 1K JA 1/16W
R8112	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R8858	401 105 2904	MT-GLAZE 22K JA 1/16W
R8113	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R8859	401 105 2904	MT-GLAZE 22K JA 1/16W
R8114	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R9401	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8116	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R9402	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8117	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R9403	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8118	401 105 8005	MT-GLAZE 1M JA 1/16W	R9404	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8119	401 105 8005	MT-GLAZE 1M JA 1/16W	R9406	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8122	401 105 0603	MT-GLAZE 10K JA 1/16W	R9407	401 105 0603	MT-GLAZE 10K JA 1/16W
R8123	401 105 0603	MT-GLAZE 10K JA 1/16W	R9411	401 105 0603	MT-GLAZE 10K JA 1/16W
R8124	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R9412	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8131	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R9413	401 105 2607	MT-GLAZE 22 JA 1/16W
R8132	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R9414	401 105 2607	MT-GLAZE 22 JA 1/16W
R8133	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R9416	401 105 2607	MT-GLAZE 22 JA 1/16W
R8134	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R9417	401 105 2607	MT-GLAZE 22 JA 1/16W
R8136	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R9418	401 105 2607	MT-GLAZE 22 JA 1/16W
R8137	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R9419	401 105 2607	MT-GLAZE 22 JA 1/16W
R8138	401 105 8005	MT-GLAZE 1M JA 1/16W	R9421	401 105 0603	MT-GLAZE 10K JA 1/16W
R8139	401 105 8005	MT-GLAZE 1M JA 1/16W	R9422	401 105 0603	MT-GLAZE 10K JA 1/16W
R8141	401 105 8005	MT-GLAZE 1M JA 1/16W	R9423	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8142	401 105 8005	MT-GLAZE 1M JA 1/16W	R9424	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8143	401 105 0603	MT-GLAZE 10K JA 1/16W	R9425	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8144	401 105 0603	MT-GLAZE 10K JA 1/16W	R9802	401 105 0306	MT-GLAZE 10 JA 1/16W
R8151	401 105 8005	MT-GLAZE 1M JA 1/16W	R9803	401 105 0306	MT-GLAZE 10 JA 1/16W
R8152	401 105 8005	MT-GLAZE 1M JA 1/16W	R9807	401 105 0405	MT-GLAZE 100 JA 1/16W
R8161	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R9808	401 105 0603	MT-GLAZE 10K JA 1/16W
R8162	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R9809	401 105 0405	MT-GLAZE 100 JA 1/16W
R8163	401 105 0405	MT-GLAZE 100 JA 1/16W	TRANSFORMER		
R8164	401 105 0405	MT-GLAZE 100 JA 1/16W	T371	405 139 7706	TR IMZ1A-T108
R8201	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	T372	405 139 7706	TR IMZ1A-T108
R8202	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	COIL		
R8203	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	L121	645 050 2996	IMPEDANCE, 600 OHM P
R8204	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	L122	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R8211	401 105 0405	MT-GLAZE 100 JA 1/16W	L1301	645 049 6967	IMPEDANCE, 600 OHM P
R8212	401 105 0405	MT-GLAZE 100 JA 1/16W	L1302	645 049 6967	IMPEDANCE, 600 OHM P
R8213	401 105 0405	MT-GLAZE 100 JA 1/16W	L1331	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R8214	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	L1332	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R8216	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	L371	645 033 7949	INDUCTOR, 33U M
R8217	401 105 5301	MT-GLAZE 4.7K JA 1/16W	L372	645 062 2854	INDUCTOR, 33U M
R8218	401 105 5301	MT-GLAZE 4.7K JA 1/16W	L5321	645 026 0964	INDUCTOR, 10U K
R8221	401 105 3307	MT-GLAZE 2.7K JA 1/16W	L5621	645 001 4512	INDUCTOR, 10U K
R8222	401 105 4403	MT-GLAZE 39 JA 1/16W	L6201	645 026 0995	INDUCTOR, 22U K
R8223	401 105 5202	MT-GLAZE 470 JA 1/16W	L6202	401 276 4707	MT-GLAZE 0.000 ZA 1/3W
R8224	401 105 3109	MT-GLAZE 27 JA 1/16W	L8201	645 026 0988	INDUCTOR, 2.2U M
R8251	401 105 0405	MT-GLAZE 100 JA 1/16W	L8202	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R8252	401 105 0405	MT-GLAZE 100 JA 1/16W	L8203	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R8253	401 105 0405	MT-GLAZE 100 JA 1/16W	L8204	645 050 2996	IMPEDANCE, 600 OHM P
R8291	645 049 0248	IMPEDANCE, 120 OHM P	DIODE		
R8292	645 049 0248	IMPEDANCE, 120 OHM P	D151	407 149 0807	DIODE 1SS355-TE-17
R8293	401 105 5103	MT-GLAZE 47 JA 1/16W	D301	407 149 0807	DIODE 1SS355-TE-17
R8294	401 105 5103	MT-GLAZE 47 JA 1/16W	D371	407 201 2701	DIODE RB051L-40-TE25
R8801	401 105 0306	MT-GLAZE 10 JA 1/16W	D372	407 201 2701	DIODE RB051L-40-TE25
R8802	401 105 0306	MT-GLAZE 10 JA 1/16W	D4811	407 209 1201	ZD UDZS-TE-176.2B
R8803	401 105 0603	MT-GLAZE 10K JA 1/16W	D4812	407 209 1201	ZD UDZS-TE-176.2B
R8804	401 105 0603	MT-GLAZE 10K JA 1/16W	D4813	407 209 1201	ZD UDZS-TE-176.2B
R8808	401 105 0306	MT-GLAZE 10 JA 1/16W	D4814	407 209 1201	ZD UDZS-TE-176.2B
R8809	401 105 0306	MT-GLAZE 10 JA 1/16W	D491	407 149 0807	DIODE 1SS355-TE-17
R8812	401 105 0603	MT-GLAZE 10K JA 1/16W	D492	407 149 0807	DIODE 1SS355-TE-17
R8813	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	D5351	407 149 0807	DIODE 1SS355-TE-17
R8819	401 260 4102	MT-GLAZE 75 JA 1/3W	D5352	407 149 0807	DIODE 1SS355-TE-17
R8820	401 260 4102	MT-GLAZE 75 JA 1/3W			
R8851	401 105 0306	MT-GLAZE 10 JA 1/16W			

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
D5631	407 149 0807	DIODE 1SS355-TE-17	610 307 8939 ASSY,PWB,AV M4KA 1AA0B10C4790A		
D6804	407 149 0807	DIODE 1SS355-TE-17	TRANSISTOR		
D6805	407 149 0807	DIODE 1SS355-TE-17	Q1051	405 014 4509	TR 2SC2412K T146 R
D6806	407 149 0807	DIODE 1SS355-TE-17		405 014 4608	TR 2SC2412K T146 S
D7801	407 149 0807	DIODE 1SS355-TE-17		405 015 8704	TR 2SC2812-L6-TB
D7802	407 149 0807	DIODE 1SS355-TE-17		405 015 8902	TR 2SC2812-L7-TB
D7803	407 149 0807	DIODE 1SS355-TE-17		405 163 1602	TR 2SC2812N-L6-TB0
D7804	407 149 0807	DIODE 1SS355-TE-17		405 163 1701	TR 2SC2812N-L7-TB0
D7806	407 149 0807	DIODE 1SS355-TE-17		405 173 9803	TR 2SC3928A1R
D7807	407 149 0807	DIODE 1SS355-TE-17		405 173 9902	TR 2SC3928A1S
D7811	407 149 0807	DIODE 1SS355-TE-17	Q1061	405 014 4509	TR 2SC2412K T146 R
D7812	407 149 0807	DIODE 1SS355-TE-17		405 014 4608	TR 2SC2412K T146 S
D7813	407 149 0807	DIODE 1SS355-TE-17		405 015 8704	TR 2SC2812-L6-TB
D7814	407 149 0807	DIODE 1SS355-TE-17		405 015 8902	TR 2SC2812-L7-TB
D7821	407 149 0807	DIODE 1SS355-TE-17		405 163 1602	TR 2SC2812N-L6-TB0
D8101	407 201 2701	DIODE RB051L-40-TE25		405 163 1701	TR 2SC2812N-L7-TB0
D8102	407 210 5601	DIODE RB500V-40-TE-17		405 173 9803	TR 2SC3928A1R
D8103	407 201 2701	DIODE RB051L-40-TE25		405 173 9902	TR 2SC3928A1S
D8851	407 209 1201	ZD UDZS-TE-176.2B	Q1062	405 014 4509	TR 2SC2412K T146 R
D8852	407 209 1201	ZD UDZS-TE-176.2B		405 014 4608	TR 2SC2412K T146 S
D8853	407 149 0807	DIODE 1SS355-TE-17		405 015 8704	TR 2SC2812-L6-TB
D8854	407 149 0807	DIODE 1SS355-TE-17		405 015 8902	TR 2SC2812-L7-TB
MISCELLANEOUS				405 163 1602	TR 2SC2812N-L6-TB0
SW6801	645 026 2791	SWITCH,PUSH 1P-1TX1		405 163 1701	TR 2SC2812N-L7-TB0
SW6802	645 026 2791	SWITCH,PUSH 1P-1TX1		405 173 9803	TR 2SC3928A1R
SW6804	645 026 2791	SWITCH,PUSH 1P-1TX1		405 173 9902	TR 2SC3928A1S
SW6806	645 026 2791	SWITCH,PUSH 1P-1TX1	Q5201	405 134 5905	TR 2SA1037AK-T146-R
SW6807	645 026 2791	SWITCH,PUSH 1P-1TX1		405 147 2205	TR 2SA1037AK-S-T146
SW6809	645 026 2791	SWITCH,PUSH 1P-1TX1		405 002 0308	TR 2SA1037K T146 R
SW6811	645 026 2791	SWITCH,PUSH 1P-1TX1		405 002 0407	TR 2SA1037K T146 S
X101	645 034 6118	OSC,CRYSTAL 20.250MHZ		405 002 6706	TR 2SA1179-M6-TB
X1301	645 050 2323	OSC,CRYSTAL 25.000MHZ		405 002 6904	TR 2SA1179-M7-TB
X1895	645 046 1415	OSC,CERAMIC 4.00MHZ		405 163 1503	TR 2SA1179N-M6-TB
X301	645 030 5863	OSC,CRISTAL,14.318MHZ		405 163 2708	TR 2SA1179N-M7-TB
X5341	645 053 7677	OSC,CERAMIC 503.0KHZ		405 173 9605	TR 2SA1235A1E
610 307 8908 ASSY,PWB,R/C M4KA 1AA0B10C4780B				405 173 9704	TR 2SA1235A1F
CAPACITOR			Q5202	405 134 5905	TR 2SA1037AK-T146-R
C2801	403 283 6309	CERAMIC 1U Z 10V		405 147 2205	TR 2SA1037AK-S-T146
C2802	403 157 6602	CERAMIC 470P K 50V		405 002 0308	TR 2SA1037K T146 R
C2803	403 378 3107	CERAMIC 47U Z 6.3V		405 002 0407	TR 2SA1037K T146 S
C2804	403 378 3107	CERAMIC 47U Z 6.3V		405 002 6706	TR 2SA1179-M6-TB
RESISTOR				405 002 6904	TR 2SA1179-M7-TB
R2801	401 105 5103	MT-GLAZE 47 JA 1/16W		405 163 1503	TR 2SA1179N-M6-TB
R2802	401 105 0405	MT-GLAZE 100 JA 1/16W		405 163 2708	TR 2SA1179N-M7-TB
MISCELLANEOUS			Q5203	405 173 9605	TR 2SA1235A1E
A2811	645 056 9111	UNIT,REMOCON RECEIVER		405 173 9704	TR 2SA1235A1F
610 307 8915 ASSY,PWB,SENSOR M4KA 1AA0B10C4780C				405 014 4509	TR 2SC2412K T146 R
INTEGRATED CIRCUIT				405 014 4608	TR 2SC2412K T146 S
IC8821	409 481 8602	IC LM76CHMX-5		405 015 8704	TR 2SC2812-L6-TB
CAPACITOR				405 015 8902	TR 2SC2812-L7-TB
C8821	403 155 1609	CERAMIC 33P J 50V		405 163 1602	TR 2SC2812N-L6-TB0
C8822	403 155 1609	CERAMIC 33P J 50V		405 163 1701	TR 2SC2812N-L7-TB0
C8823	403 164 0204	CERAMIC 0.1U Z 25V		405 173 9803	TR 2SC3928A1R
C8824	403 205 7803	TA-SOLID 2.2U M 16V		405 173 9902	TR 2SC3928A1S
RESISTOR			Q5204	405 134 5905	TR 2SA1037AK-T146-R
R8821	401 105 0306	MT-GLAZE 10 JA 1/16W		405 147 2205	TR 2SA1037AK-S-T146
R8822	401 105 0306	MT-GLAZE 10 JA 1/16W		405 002 0308	TR 2SA1037K T146 R
R8823	401 105 0603	MT-GLAZE 10K JA 1/16W		405 002 0407	TR 2SA1037K T146 S
R8827	401 105 7909	MT-GLAZE 0.000 ZA 1/16W		405 002 6706	TR 2SA1179-M6-TB
R8831	401 105 0405	MT-GLAZE 100 JA 1/16W		405 002 6904	TR 2SA1179-M7-TB
				405 163 1503	TR 2SA1179N-M6-TB
				405 163 2708	TR 2SA1179N-M7-TB
				405 173 9605	TR 2SA1235A1E
				405 173 9704	TR 2SA1235A1F
			Q5206	405 134 5905	TR 2SA1037AK-T146-R
				405 147 2205	TR 2SA1037AK-S-T146

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
Q5207	405 002 0308	TR 2SA1037K T146 R	C5207	403 355 9900	CERAMIC 2.2U K 10V
	405 002 0407	TR 2SA1037K T146 S	C5208	403 283 6309	CERAMIC 1U Z 10V
	405 002 6706	TR 2SA1179-M6-TB	C5209	403 298 9609	CERAMIC 0.1U K 16V
	405 002 6904	TR 2SA1179-M7-TB	C5210	403 215 2201	CERAMIC 0.01U K 50V
	405 163 1503	TR 2SA1179N-M6-TB	C5211	403 323 1301	CERAMIC 0.47U Z 10V
	405 163 2708	TR 2SA1179N-M7-TB	C5216	403 207 0307	CERAMIC 1U Z 16V
	405 173 9605	TR 2SA1235A1E	C5217	403 229 3508	ELECT 100U M 16V
	405 173 9704	TR 2SA1235A1F	C5218	403 207 0307	CERAMIC 1U Z 16V
	405 134 5905	TR 2SA1037AK-T146-R	C5219	403 207 0307	CERAMIC 1U Z 16V
	405 147 2205	TR 2SA1037AK-S-T146	C5221	403 283 6309	CERAMIC 1U Z 10V
	405 002 0308	TR 2SA1037K T146 R	C5222	403 283 6309	CERAMIC 1U Z 10V
	405 002 0407	TR 2SA1037K T146 S	C5223	403 304 1801	ELECT 100U M 6.3V
	405 002 6706	TR 2SA1179-M6-TB	C5231	403 304 1801	ELECT 100U M 6.3V
	405 002 6904	TR 2SA1179-M7-TB	C5232	403 364 5801	CERAMIC 1U K 10V
	405 163 1503	TR 2SA1179N-M6-TB	C5233	403 304 1801	ELECT 100U M 6.3V
Q5208	405 163 2708	TR 2SA1179N-M7-TB	C5234	403 364 5801	CERAMIC 1U K 10V
	405 173 9605	TR 2SA1235A1E	C5236	403 304 1801	ELECT 100U M 6.3V
	405 173 9704	TR 2SA1235A1F	C5237	403 364 5801	CERAMIC 1U K 10V
	405 014 4509	TR 2SC2412K T146 R	C5261	403 283 6309	CERAMIC 1U Z 10V
	405 014 4608	TR 2SC2412K T146 S	C5262	403 298 9609	CERAMIC 0.1U K 16V
	405 015 8704	TR 2SC2812-L6-TB	C5263	403 355 9900	CERAMIC 2.2U K 10V
	405 015 8902	TR 2SC2812-L7-TB	RESISTOR		
	405 163 1602	TR 2SC2812N-L6-TB0	R1001	401 105 0504	MT-GLAZE 1K JA 1/16W
	405 163 1701	TR 2SC2812N-L7-TB0	R1002	401 105 5400	MT-GLAZE 47K JA 1/16W
	405 173 9803	TR 2SC3928A1R	R1003	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
	405 173 9902	TR 2SC3928A1S	R1004	401 105 1006	MT-GLAZE 1.2K JA 1/16W
	405 134 5905	TR 2SA1037AK-T146-R	R1021	401 105 0306	MT-GLAZE 10 JA 1/16W
	405 147 2205	TR 2SA1037AK-S-T146	R1022	401 105 0306	MT-GLAZE 10 JA 1/16W
	405 002 0308	TR 2SA1037K T146 R	R1051	401 260 4102	MT-GLAZE 75 JA 1/3W
	405 002 0407	TR 2SA1037K T146 S	R1053	401 105 1600	MT-GLAZE 15K JA 1/16W
Q5261	405 002 6706	TR 2SA1179-M6-TB	R1054	401 105 1501	MT-GLAZE 1.5K JA 1/16W
	405 002 6904	TR 2SA1179-M7-TB	R1057	401 105 0405	MT-GLAZE 100 JA 1/16W
	405 163 1503	TR 2SA1179N-M6-TB	R1060	401 105 0405	MT-GLAZE 100 JA 1/16W
	405 163 2708	TR 2SA1179N-M7-TB	R1061	401 105 0603	MT-GLAZE 10K JA 1/16W
	405 173 9605	TR 2SA1235A1E	R1062	401 260 4102	MT-GLAZE 75 JA 1/3W
	405 173 9704	TR 2SA1235A1F	R1064	401 105 6605	MT-GLAZE 6.8K JA 1/16W
	405 014 4509	TR 2SC2412K T146 R	R1065	401 105 0405	MT-GLAZE 100 JA 1/16W
	405 014 4608	TR 2SC2412K T146 S	R1066	401 105 1501	MT-GLAZE 1.5K JA 1/16W
	405 015 8704	TR 2SC2812-L6-TB	R1067	401 260 4102	MT-GLAZE 75 JA 1/3W
	405 015 8902	TR 2SC2812-L7-TB	R1069	401 105 0504	MT-GLAZE 1K JA 1/16W
	405 163 1602	TR 2SC2812N-L6-TB0	R1071	401 105 1501	MT-GLAZE 1.5K JA 1/16W
	405 163 1701	TR 2SC2812N-L7-TB0	R1072	401 105 0405	MT-GLAZE 100 JA 1/16W
	405 173 9803	TR 2SC3928A1R	R1081	401 105 0405	MT-GLAZE 100 JA 1/16W
	405 173 9902	TR 2SC3928A1S	R2041	401 105 0405	MT-GLAZE 100 JA 1/16W
INTEGRATED CIRCUIT			R2051	401 105 0405	MT-GLAZE 100 JA 1/16W
IC5201	409 530 7204	IC AN5870SB	R2052	401 105 0405	MT-GLAZE 100 JA 1/16W
IC5241	409 395 5902	IC TC7SH00FU- (TE85L)	R5200	401 105 0405	MT-GLAZE 100 JA 1/16W
CAPACITOR			R5201	401 260 4102	MT-GLAZE 75 JA 1/3W
C1001	403 164 0204	CERAMIC 0.1U Z 25V	R5202	401 105 4403	MT-GLAZE 39 JA 1/16W
C1008	403 164 0204	CERAMIC 0.1U Z 25V	R5203	401 260 4102	MT-GLAZE 75 JA 1/3W
C1009	403 164 0204	CERAMIC 0.1U Z 25V	R5204	401 105 4403	MT-GLAZE 39 JA 1/16W
C1052	401 035 4108	MT-GLAZE 0.000 ZA 1/8W	R5205	401 105 0405	MT-GLAZE 100 JA 1/16W
C1061	403 164 0204	CERAMIC 0.1U Z 25V	R5206	401 260 4102	MT-GLAZE 75 JA 1/3W
C1063	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5207	401 105 4403	MT-GLAZE 39 JA 1/16W
C1064	403 233 3808	CERAMIC 10P C 50V	R5208	401 260 4102	MT-GLAZE 75 JA 1/3W
C1066	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5209	401 260 4102	MT-GLAZE 75 JA 1/3W
C1081	403 164 0204	CERAMIC 0.1U Z 25V	R5210	401 105 0405	MT-GLAZE 100 JA 1/16W
C1082	403 304 1801	ELECT 100U M 6.3V	R5211	401 260 4102	MT-GLAZE 75 JA 1/3W
C1083	403 164 0204	CERAMIC 0.1U Z 25V	R5213	401 105 0405	MT-GLAZE 100 JA 1/16W
C1084	403 304 1801	ELECT 100U M 6.3V	R5214	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
C2041	403 164 0204	CERAMIC 0.1U Z 25V	R5215	401 105 0603	MT-GLAZE 10K JA 1/16W
C5201	403 355 9900	CERAMIC 2.2U K 10V	R5217	401 105 0405	MT-GLAZE 100 JA 1/16W
C5202	403 355 9900	CERAMIC 2.2U K 10V	R5218	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
C5203	403 355 9900	CERAMIC 2.2U K 10V	R5219	401 105 5202	MT-GLAZE 470 JA 1/16W
C5204	403 355 9900	CERAMIC 2.2U K 10V	R5221	401 105 1501	MT-GLAZE 1.5K JA 1/16W
C5206	403 355 9900	CERAMIC 2.2U K 10V	R5222	401 105 0603	MT-GLAZE 10K JA 1/16W

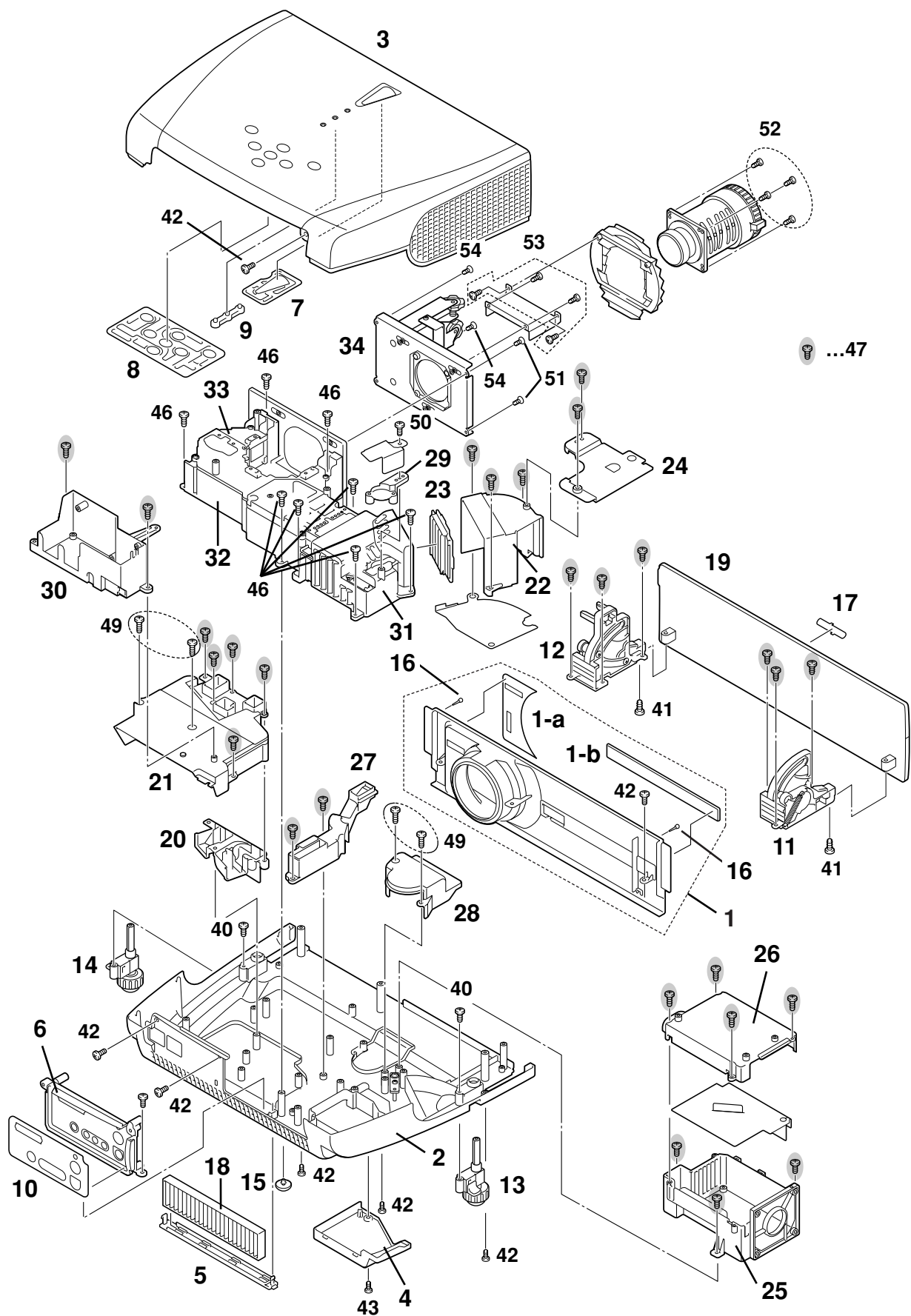
Electrical Parts List

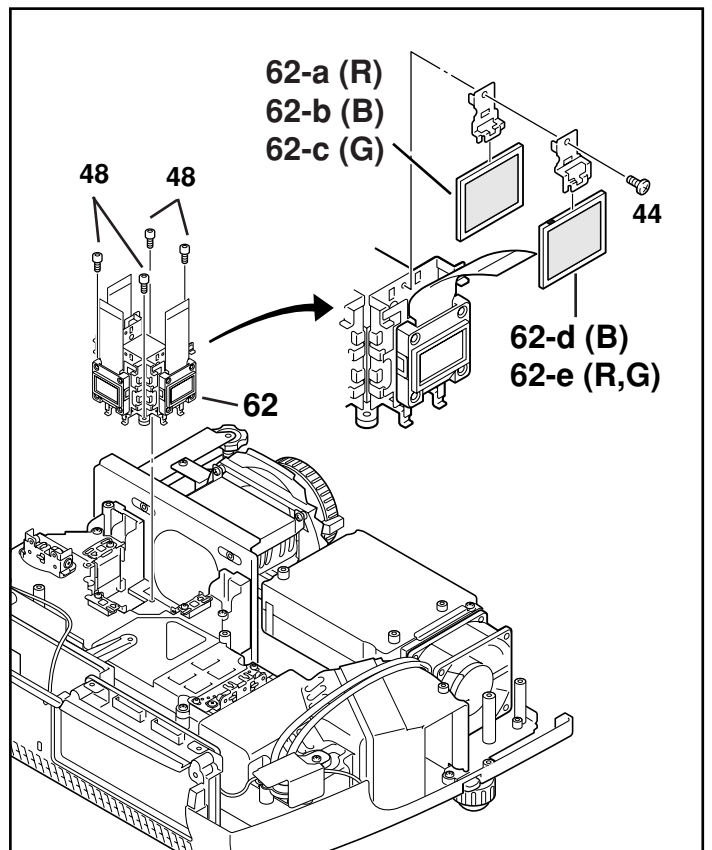
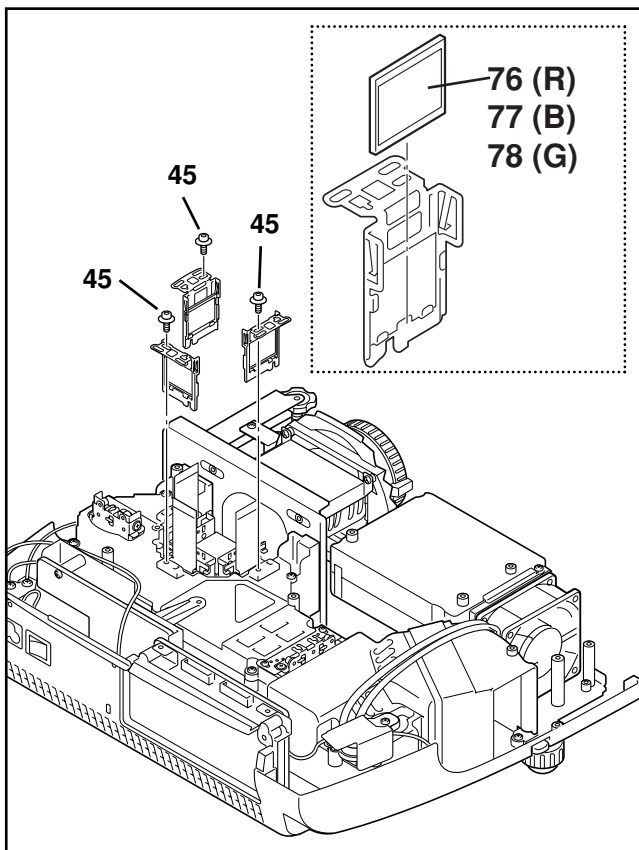
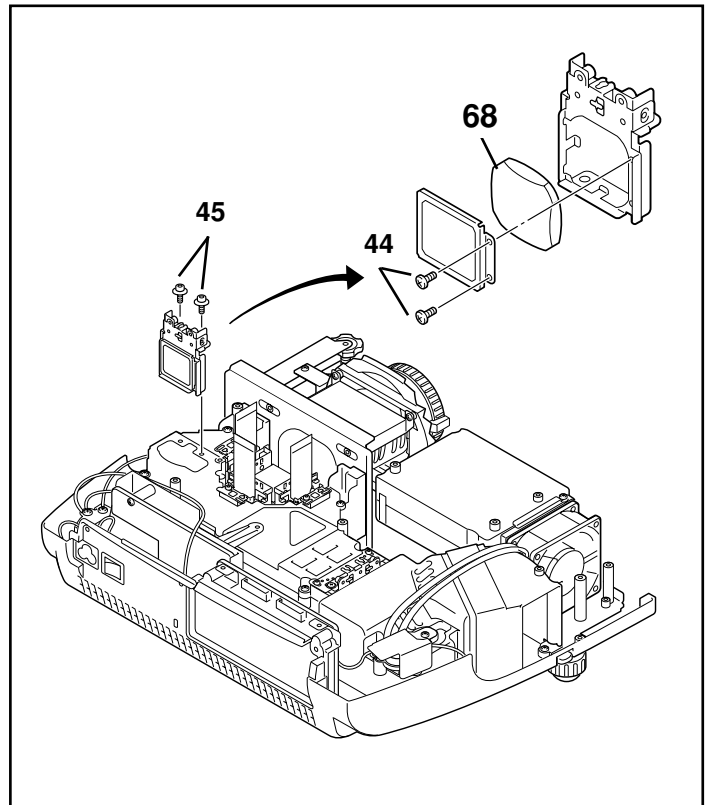
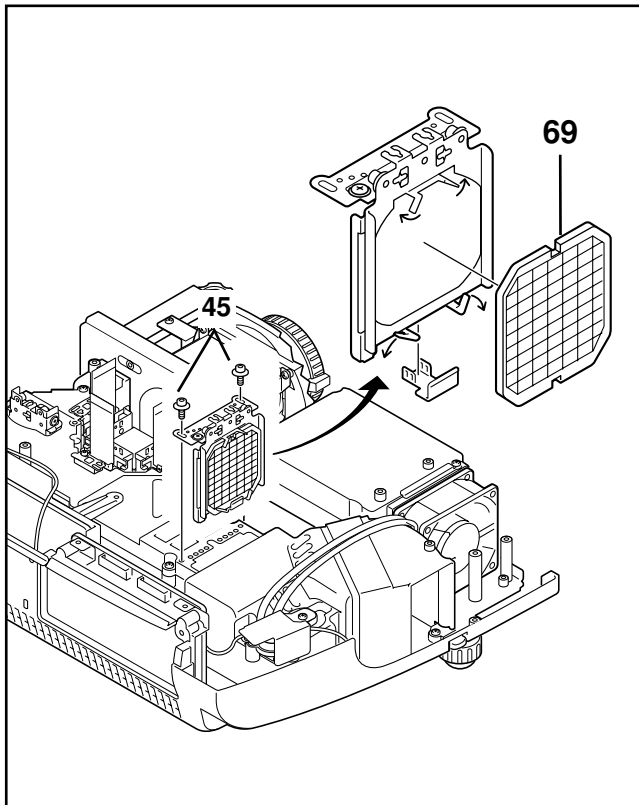
Key No.	Part No.	Description	Key No.	Part No.	Description
R5223	401 105 6001	MT-GLAZE 5.6K JA 1/16W	D2041	407 209 1201	ZD UDZS-TE-176.2B
R5224	401 105 0405	MT-GLAZE 100 JA 1/16W	MISCELLANEOUS		
R5225	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	K10A	645 054 0226	SOCKET,DVI 29P
R5226	401 105 0405	MT-GLAZE 100 JA 1/16W	K10B	645 055 5664	JACK,RCA-3
R5227	401 105 5202	MT-GLAZE 470 JA 1/16W	K10E	610 010 3689	JACK,RCA
R5228	401 105 5905	MT-GLAZE 560 JA 1/16W	K10F	610 010 8295	SOCKET,DIN 4P
R5229	401 105 1006	MT-GLAZE 1.2K JA 1/16W	K100G	645 049 6653	TERMINAL
R5230	401 105 1501	MT-GLAZE 1.5K JA 1/16W	K20B	645 048 6739	SOCKET,DIN 8P
R5231	401 105 0504	MT-GLAZE 1K JA 1/16W	SC1001	645 055 3202	SURGE-ABSORBER
R5232	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	SC1002	645 055 3202	SURGE-ABSORBER
R5234	401 105 2805	MT-GLAZE 2.2K JA 1/16W	SC1003	645 055 3202	SURGE-ABSORBER
R5236	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	SC1004	645 055 3202	SURGE-ABSORBER
R5237	401 105 0504	MT-GLAZE 1K JA 1/16W	SC1006	645 055 3202	SURGE-ABSORBER
R5238	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	SC1007	645 055 3202	SURGE-ABSORBER
R5239	401 105 0504	MT-GLAZE 1K JA 1/16W	SC1008	645 055 3202	SURGE-ABSORBER
R5240	401 105 1501	MT-GLAZE 1.5K JA 1/16W	SC1009	645 055 3202	SURGE-ABSORBER
R5241	401 105 5905	MT-GLAZE 560 JA 1/16W	SC1011	645 055 3202	SURGE-ABSORBER
R5242	401 105 1006	MT-GLAZE 1.2K JA 1/16W	SC1012	645 055 3202	SURGE-ABSORBER
R5243	401 105 0504	MT-GLAZE 1K JA 1/16W	SC1051	645 055 3202	SURGE-ABSORBER
R5244	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	SC1061	645 055 3202	SURGE-ABSORBER
R5245	401 105 1501	MT-GLAZE 1.5K JA 1/16W	SC1062	645 055 3202	SURGE-ABSORBER
R5246	401 105 5905	MT-GLAZE 560 JA 1/16W	SC2051	645 055 3202	SURGE-ABSORBER
R5247	401 105 1006	MT-GLAZE 1.2K JA 1/16W	SC2052	645 055 3202	SURGE-ABSORBER
R5248	401 260 8407	MT-GLAZE 22 JA 1/3W	SW2041	645 042 8104	SWITCH,PUSH 1P-1TX1
R5249	401 035 4306	MT-GLAZE 10 JA 1/8W	610 307 8946 ASSY,PWB,LED M4KA 1AA0B10C4790B		
R5251	401 105 0603	MT-GLAZE 10K JA 1/16W	TRANSISTOR		
R5252	401 105 0603	MT-GLAZE 10K JA 1/16W	Q2861	405 014 4509	TR 2SC2412K T146 R
R5261	401 105 0504	MT-GLAZE 1K JA 1/16W		405 014 4608	TR 2SC2412K T146 S
R5262	401 105 3000	MT-GLAZE 220K JA 1/16W		405 015 8704	TR 2SC2812-L6-TB
R5263	401 105 7404	MT-GLAZE 8.2K JA 1/16W		405 015 8902	TR 2SC2812-L7-TB
R5264	401 105 0405	MT-GLAZE 100 JA 1/16W		405 163 1602	TR 2SC2812N-L6-TB0
R5265	401 105 1006	MT-GLAZE 1.2K JA 1/16W		405 163 1701	TR 2SC2812N-L7-TB0
R5266	401 105 0504	MT-GLAZE 1K JA 1/16W		405 173 9803	TR 2SC3928A1R
COIL				405 173 9902	TR 2SC3928A1S
L1001	645 059 2409	FILTER,EMI 35PF	Q2862	405 014 4509	TR 2SC2412K T146 R
L1002	645 059 2409	FILTER,EMI 35PF		405 014 4608	TR 2SC2412K T146 S
L1006	645 059 2416	FILTER,EMI 18PF		405 015 8704	TR 2SC2812-L6-TB
L1007	645 059 2416	FILTER,EMI 18PF		405 015 8902	TR 2SC2812-L7-TB
L1008	645 059 2416	FILTER,EMI 18PF		405 163 1602	TR 2SC2812N-L6-TB0
L1031	645 059 2416	FILTER,EMI 18PF		405 163 1701	TR 2SC2812N-L7-TB0
L1032	645 059 2416	FILTER,EMI 18PF		405 173 9803	TR 2SC3928A1R
L1033	645 059 2416	FILTER,EMI 18PF		405 173 9902	TR 2SC3928A1S
L1052	645 059 2386	FILTER,EMI 100MHZ	Q2863	405 014 4509	TR 2SC2412K T146 R
L1061	401 035 4108	MT-GLAZE 0.000 ZA 1/8W		405 014 4608	TR 2SC2412K T146 S
L1062	645 059 2386	FILTER,EMI 100MHZ		405 015 8704	TR 2SC2812-L6-TB
L1063	401 035 4108	MT-GLAZE 0.000 ZA 1/8W		405 015 8902	TR 2SC2812-L7-TB
L1064	645 059 2386	FILTER,EMI 100MHZ		405 163 1602	TR 2SC2812N-L6-TB0
L1081	645 001 4512	INDUCTOR,10U K		405 163 1701	TR 2SC2812N-L7-TB0
L2051	645 059 2393	FILTER,EMI 20MHZ		405 173 9803	TR 2SC3928A1R
L2052	645 059 2393	FILTER,EMI 20MHZ		405 173 9902	TR 2SC3928A1S
DIODE			Q2864	405 134 5905	TR 2SA1037AK-T146-R
D1001	407 209 4509	ZD UDZS-TE-176.8B		405 147 2205	TR 2SA1037AK-S-T146
D1002	407 209 4509	ZD UDZS-TE-176.8B		405 002 0308	TR 2SA1037K T146 R
D1003	407 209 1201	ZD UDZS-TE-176.2B		405 002 0407	TR 2SA1037K T146 S
D1004	407 209 1201	ZD UDZS-TE-176.2B		405 002 6706	TR 2SA1179-M6-TB
D1005	407 209 1201	ZD UDZS-TE-176.2B		405 002 6904	TR 2SA1179-M7-TB
D1006	645 055 3202	SURGE-ABSORBER		405 163 1503	TR 2SA1179N-M6-TB
D1007	645 055 3202	SURGE-ABSORBER		405 163 2708	TR 2SA1179N-M7-TB
D1008	645 055 3202	SURGE-ABSORBER		405 173 9605	TR 2SA1235A1E
D1031	407 209 4509	ZD UDZS-TE-176.8B		405 173 9704	TR 2SA1235A1F
D1032	407 209 4509	ZD UDZS-TE-176.8B	CAPACITOR		
D1033	407 209 4509	ZD UDZS-TE-176.8B	C2861	403 164 0204	CERAMIC 0.1U Z 25V
D1034	407 209 4509	ZD UDZS-TE-176.8B	C2862	403 164 0204	CERAMIC 0.1U Z 25V
D1036	407 209 4509	ZD UDZS-TE-176.8B	RESISTOR		
D1037	407 209 4509	ZD UDZS-TE-176.8B			
D1061	407 221 7106	ZENER DIODE UDZS-TE-1712B			

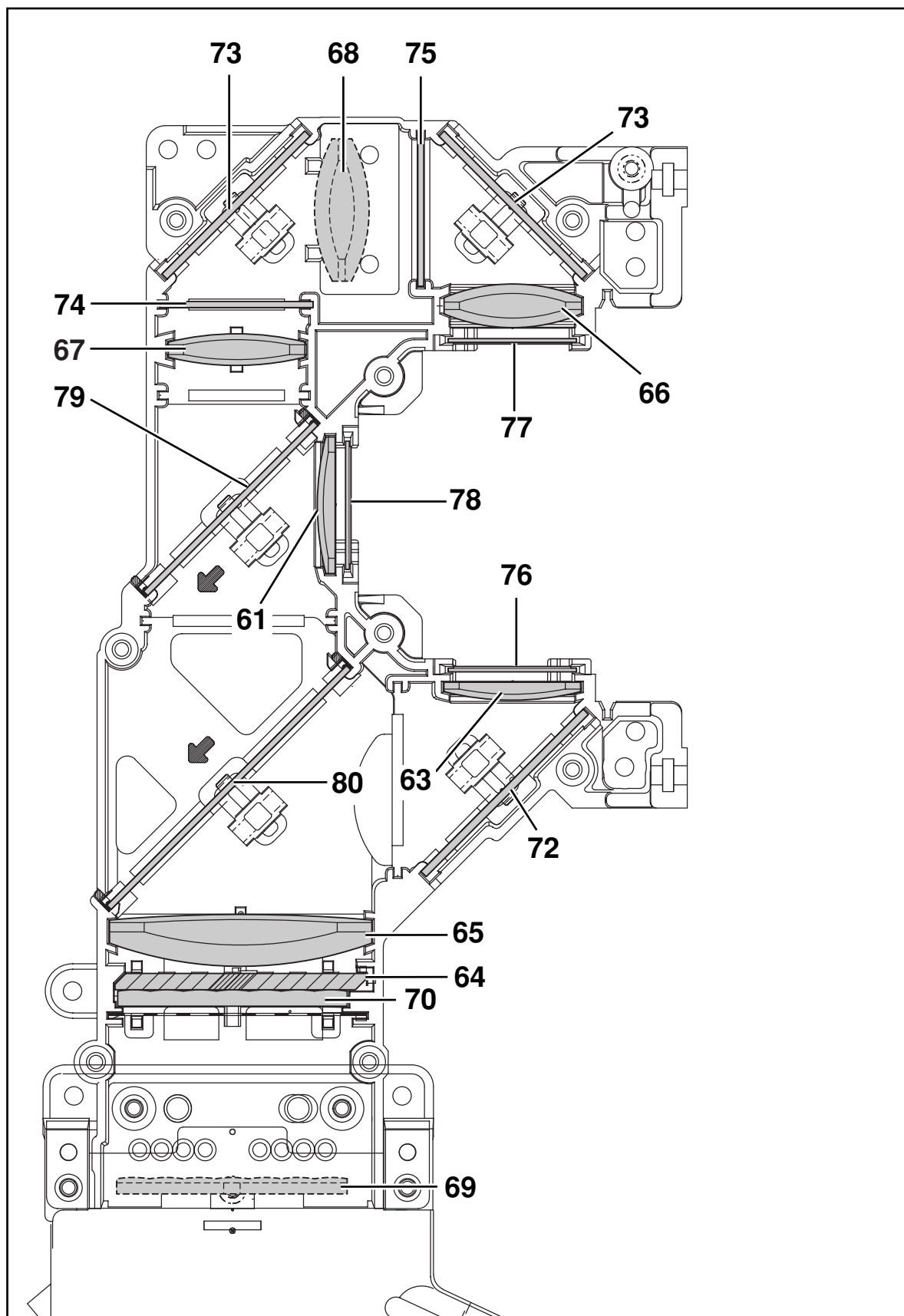
Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
R2862	401 105 0504	MT-GLAZE 1K JA 1/16W			
R2864	401 105 5301	MT-GLAZE 4.7K JA 1/16W			
R2866	401 105 0504	MT-GLAZE 1K JA 1/16W			
R2868	401 105 5301	MT-GLAZE 4.7K JA 1/16W			
R2869	401 105 4502	MT-GLAZE 390 JA 1/16W			
R2872	401 105 6506	MT-GLAZE 680 JA 1/16W			
R2874	401 105 5301	MT-GLAZE 4.7K JA 1/16W			
R2876	401 105 0504	MT-GLAZE 1K JA 1/16W			
R2878	401 105 0504	MT-GLAZE 1K JA 1/16W			
R2891	401 105 5301	MT-GLAZE 4.7K JA 1/16W			
DIODE					
D2861	407 209 7500	LED SML-210YT T86 L			
D2862	407 203 7803	LED SML-210LT T86 M			
D2863	407 222 4807	LED SML-521MUW T86			
D6803	407 149 0807	DIODE 1SS355-TE-17			
MISCELLANEOUS					
SW6808	645 026 2791	SWITCH,PUSH 1P-1TX1			
610 307 8953 ASSY,PWB,DOOR SW M4K 1AA0B10C4790C					
RESISTOR					
R8851	401 105 7909	MT-GLAZE 0.000 ZA 1/16W			
MISCELLANEOUS					
SW8801	645 056 0750	SWITCH,MICRO 1P-2T			
610 307 8960 ASSY,PWB,LAMP SW M4KA 1AA0B10C4790D					
MISCELLANEOUS					
△ SW8803	645 063 5175	SWITCH,PUSH 2P-2TX3			
610 308 8013 ASSY,PWB,INLET M4KA 1AA0B10C4800A					
MISCELLANEOUS					
△ F601	423 022 2102	FUSE 250V 4A			
△ K601	645 055 6647	SOCKET, INLET AC 3P			
△ SW601	645 055 6661	SWITCH, POWER 2P-2TX2			
610 308 8020 ASSY,PWB,FILTER M4KA 1AA0B10C4800B					
CAPACITOR					
△ C611	404 094 3808	MT-POLYEST 0.22U K 275V			
△ C612	404 094 3808	MT-POLYEST 0.22U K 275V			
△ C613	404 094 3808	MT-POLYEST 0.22U K 275V			
△ C614	404 094 3808	MT-POLYEST 0.22U K 275V			
△ C616	404 073 3904	CERAMIC 1000P K 250V			
△ C617	404 073 3904	CERAMIC 1000P K 250V			
RESISTOR					
R611	401 008 8607	CARBON 220K JA 1/2W			
VARISTOR					
△ VA611	408 018 9808	VARISTOR ENC471D-14AS			
COIL					
△ L611	645 061 7522	LINE FILTER			
△ L612	645 061 7522	LINE FILTER			

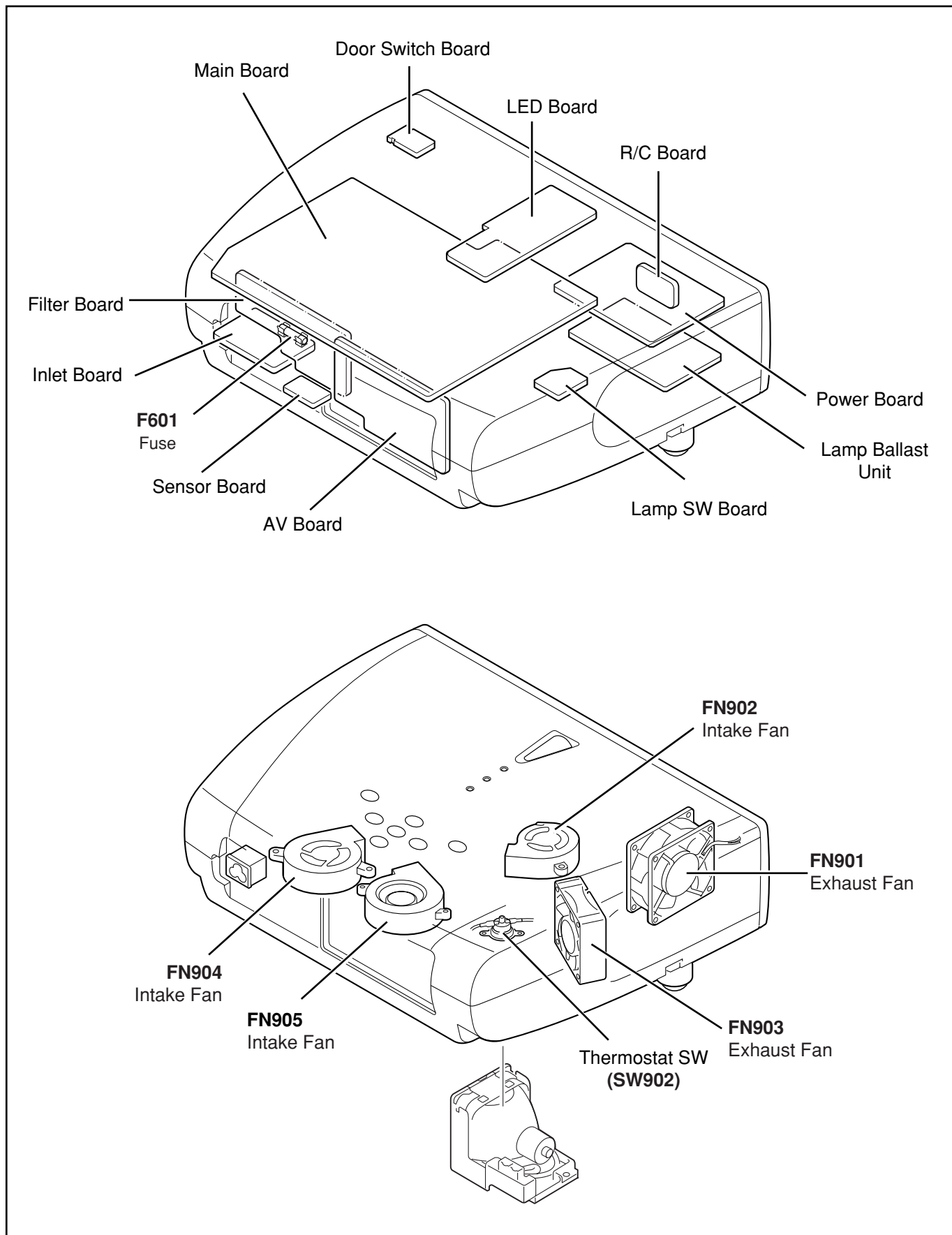
■ Mechanical (Optical) Parts List & Accessories







See Electrical Parts List.



Mechanical (Optical) Parts List & Accessories

Key No.	Part No.	Description	Key No.	Part No.	Description
CABINET PARTS			OPTICAL PARTS		
No.1	610 312 8757	CABINET FRONT SERVICE-M4KA	No.61	645 057 3941	LENS,CONDENSER (GV)
	(Included No.1-a and No.1-b.)		No.62	610 312 7989	ASSY,LCD PNL/PSM -M4KA
No.1-a	610 309 7657	DEC FRONT-M4KA		(Included from No.62-a to No.62-e.)	
No.1-b	610 309 4977	DEC INLAY FRONT-M4KA	No.62-a	645 064 1213	POLARIZED GLASS (OUT/R) 0.7
No.2	610 312 8764	CABINET BOTTOM SERVICE-M4	No.62-b	645 063 4376	POLARIZED GLASS (OUT/B) 0.7
No.3	610 312 8740	CABINET TOP SERVICE-M4KA	No.62-c	645 065 2523	POLARIZED GLASS (OUT/G)
No.4	610 308 8730	PANEL LMP-M4KA	No.62-d	645 063 4352	OPTICAL FILTER (WV-SF) B
No.5	610 308 8754	PANEL FILTER-M4KA	No.62-e	645 063 4345	OPTICAL FILTER (WV-SF) G
No.6	610 309 5134	PANEL AV-M4KA	No.63	645 057 5808	LENS,CONDENSER (R)
No.7	610 308 8006	ASSY,BUTTON POWER-M4KA	No.64	645 044 2452	ASSY,PRISM (PBS)
No.8	610 308 8174	BUTTON SELECT-M4KA	No.65	645 041 5029	LENS,CONDENSER (OUT)
No.9	610 308 8471	DEC INLAY LED-M4KA	No.66	645 041 5043	LENS,CONDENSER (B)
No.10	610 309 7671	DEC AV SHEET-M4KA	No.67	645 041 5050	LENS,RELAY (IN)
No.11	610 309 7527	COMPL,JOINT DOOR DUMPER L	No.68	645 041 5067	LENS,RELAY (OUT)
No.12	610 309 7534	COMPL,JOINT DOOR DUMPER R	No.69	645 056 0439	LENS,INTEGRATOR (IN)
No.13	610 309 7565	COMPL,STAND LEG L-M4KA	No.70	645 056 0446	LENS,INTEGRATOR (OUT)
No.14	610 309 7572	COMPL,STAND LEG R-M4KA	No.71	645 063 0309	LENS,PROJECTION
No.15	610 310 2429	SPACER LEG-M4KA	No.72	645 041 5494	MIRROR (R)
No.16	610 302 7647	STOPPER LID-M4JA	No.73	645 041 5500	MIRROR (B)
No.17	645 063 7414	BADGE,SANYO*26.2X5.7L26.0	No.74	645 044 0526	OPTICAL FILTER (RG)
No.18	610 312 0249	COMPLE,FILTER-M4KA	No.75	645 056 0453	OPTICAL FILTER (UV CUT)
No.19	610 311 3449	ASSY,DOOR-M4KA	No.76	645 056 0590	POLARIZED GLASS (OUT/R) 0.7
No.20	610 308 8433	COVER DUCT BTM-M4KA	No.77	645 056 0613	POLARIZED GLASS (OUT/B) 0.7
No.21	610 312 9532	COVER DUCT TOP-M4KA	No.78	645 063 4369	POLARIZED GLASS (IN/G) 0.7
No.22	610 309 0122	COVER DUCT EXIT LMP-M4KA	No.79	645 044 1011	DICHROIC MIRROR (G)
No.23	610 309 7640	COVER FAN SLIT-M4KA	No.80	645 056 0477	DICHROIC MIRROR (R)
No.24	610 310 1927	COVER DUCT EXIT POW-M4KA			
No.25	610 308 8662	MOUNTING POWER BTM-M4KA			
No.26	610 308 8679	MOUNTING POWER TOP-M4KA			
No.27	610 308 8686	MOUNTING DUCT PWR BTM-M4K			
No.28	610 308 8693	MOUNTING DUCT PWR TOP-M4K			
No.29	610 308 8709	MOUNTING TEMP SW-M4KA			
No.30	610 308 8716	MOUNTING AC BTM-M4KA			
No.31	610 308 7054	OPTICAL BASE LMP-M4KA			
No.32	610 308 7061	OPTICAL BASE BTM-M4KA			
No.33	610 308 7078	OPTICAL BASE TOP-M4KA			
No.34	610 308 8136	COMPL,MOUNTING LNS-M4KA			
(SCREWS)					
No.40	411 025 5305	SCR S-TPG BIN 3X10			
No.41	411 026 8206	SCR S-TPG PAN 3X8			
No.42	411 001 9006	SCR BIN 3X8			
No.43	412 067 5506	SPECIAL SCREW			
No.44	411 030 5901	SCR BIN 2X4			
No.45	411 181 4303	BOLT HEX-SCT+SW+W 2.5X5			
No.46	411 025 5206	SCR S-TPG BIN 3X10			
No.47	411 025 6500	SCR S-TPG BIN 3X8			
No.48	412 058 5409	SPECIAL SCREW			
No.49	411 142 3000	SCR S-TPG BIN 3X16			
No.50	411 001 8702	SCR BIN 3X6			
No.51	411 002 2709	SCR FLT 3X6			
No.52	412 063 7306	SPECIAL SCREW			
No.53	411 025 4209	SCR S-TPG BIN 2X6			
No.54	411 001 8801	SCR BIN 3X6			

Key No.	Part No.	Description	Key No.	Part No.	Description
ACCESSORIES					
△ AC CORD					
		(FOR US)			
	645 058 7900	CORD, POWER-1.85MK, US			
		(FOR UK)			
	645 051 6085	CORD, POWER-2.0MK			
		(FOR EU, ASIA, AFRICA)			
	645 051 6092	CORD, POWER-2.0MK			
OWNER'S MANUAL					
		(ENGLISH)			
	610 309 7923	OWNER'S MANUAL-M4KA			
		(GERMAN)			
	610 309 7930	OWNER'S MANUAL-M4KA-D			
		(FRENCH)			
	610 309 7947	OWNER'S MANUAL-M4KA-F			
		(ITALIAN)			
	610 309 7954	OWNER'S MANUAL-M4KA-I			
		(SPANISH)			
	610 309 7961	OWNER'S MANUAL-M4KA-E			
RC TRANSMITTER (CXPP)					
	645 062 6920	ASSY, REMOCON CXPP			
	610 302 5377	RC-BATTERY LID-CXKT			
OTHERS					
	645 056 0545	CABLE, VIDEO			

SANYO

Schematic Diagrams Printed Wiring Board Drawings

Model	Chassis No.
PLV-Z2	M4K-Z200

These schematic diagrams and printed wiring board drawings are part of the service manual original for chassis No. M4K-Z200, model PLV-Z2. File with the service manual No. SM5110585-00.

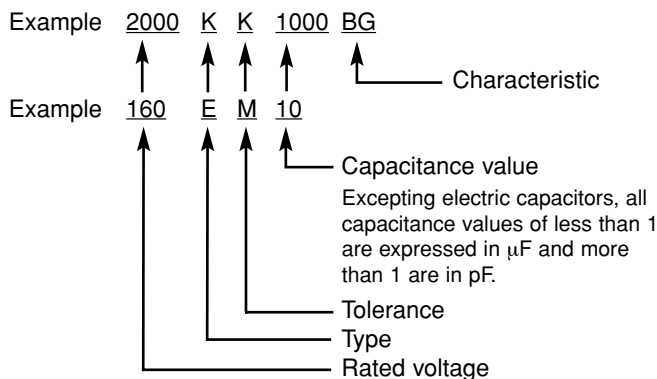
Note:

All the information of part numbers and values indicated on these diagrams are at the beginning of production. To improve the performance, there may be some differences to the actual set. When you order the service parts, use service parts code mentioned on the parts list in this service manual.

Parts description and reading in schematic diagram

1. The parts specification of resistors, capacitors and coils are expressed in designated code. Please check the parts description by the following code table.
2. Some of transistors and diodes are indicated in mark for the substitution of parts name. Please check the parts name by the following code table.
3. Voltages and waveforms were taken with a video color bar signal(1Vp-p at 75 ohms terminated) and controls to normal.
4. Voltages were taken with a high-impedance digital voltmeter.

Capacitor Reading



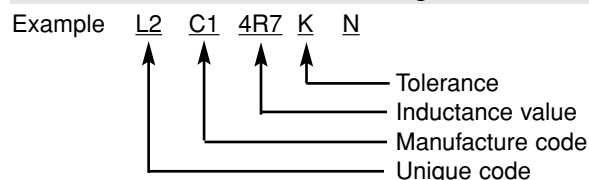
Material table

Mark	Material
E	Electrolytic
P	Electrolytic (non-polarized)
C	Ceramic (temperature compensation)
K	Ceramic
F	Polyester
N	Polypropylene
M	Metalized polypropylene
H	Metalized polypropylar
B	Ceramic (semiconductor)
G	Metalized polyester
Y	Composite film
S	Styrol
T	Tantalum oxide solid electrolytic
U	Organic semiconductive electrolyte
D	Electric double layer electrolytic

Tolerance table

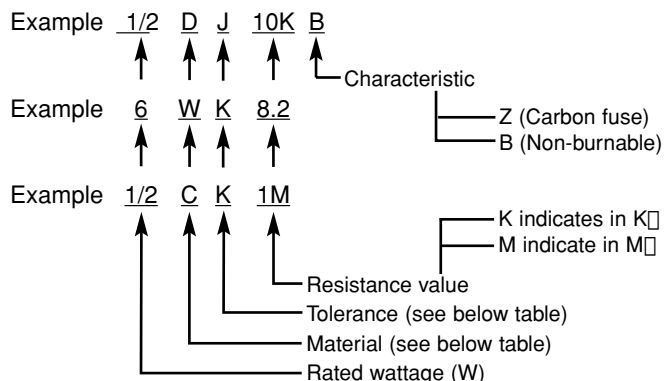
Mark	Tolerance
A	not specified
B	± 0.1
C	± 0.25
D	± 0.5
F	± 1
G	± 2
E	± 2.5
H	± 3
J	± 5
K	± 10
M	± 20
N	± 30
P	+100 -0
Q	+30 -10
T	+50 -10
U	+75 -10
V	+20 -10
W	+100 -10
X	+40 -20
Y	+150 -10
Z	+80 -20

Coil Reading



Mark	Tolerance (nH)	Mark	Tolerance (%)
C	± 0.25	G	± 2
D	± 0.5	J	± 5
S	± 0.3	K	± 10
A	± 0.2	L	± 15
		M	± 20

Resistor Reading



Note: Resistor which is indicated with resistance value only are 1/6W carbon resistor. Resistor which is indicated with material, tolerance and value are 1/4W rated wattage.

Material table

Mark	Material
D	Carbon
N	Metal film
S	Oxide metal film
C	Solid
G	Metal glaze
W	Wire winding or cement
H	Ceramic
F	Fusible

Tolerance table

Mark	Tolerance
A	± 0.05
B	± 0.1
C	± 0.25
D	± 0.5
F	± 1
G	± 2
J	± 5
K	± 10
M	± 20
P	+5 -15
Z	used in 0 ohm

Diode/Transistor Type Reading

Diode

Mark	Type number
R	1S2076A, 1S2473, 1N4148
AA	1S2076A, 1S2473, 1SS133, 1N4148

Transistor

(1) NPN type

Mark	Type number				
--	2SC536	2SC945A	2SC1815	2SC1740S	
AD	NF, NG	PA, QA	Y, GR	Q, R, S	
AE	NF, NG	PA, QA, RA	O, Y, GR	Q, R, S	

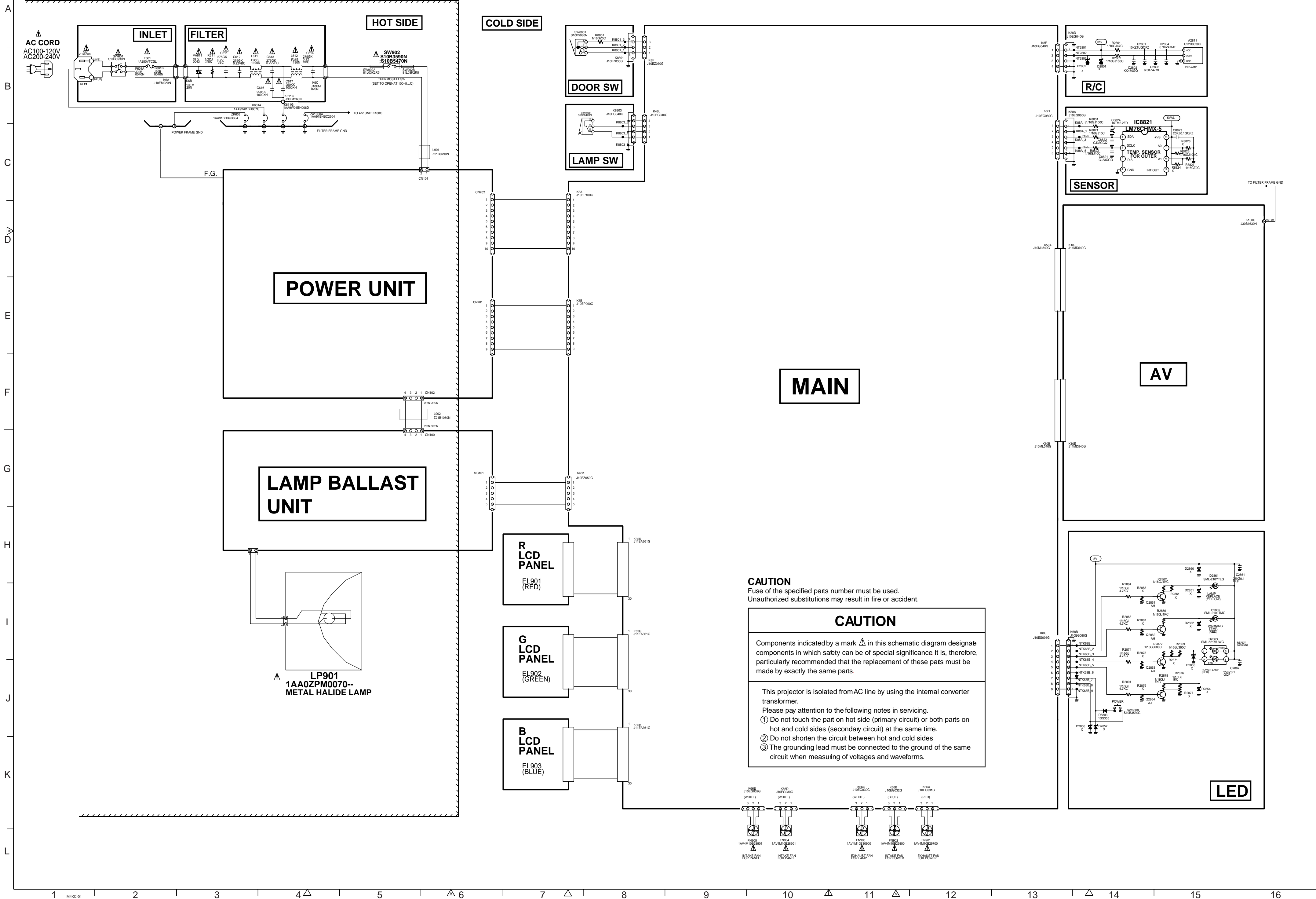
(2) PNP type

Mark	Type number				
--	2SA608	2SA564A	2SA1015	2SA933S	
AB	NF	R	Y, GR	R	
AC	NF	Q, R	O, Y, GR	Q, R	

(3) Chip type


Mark	Type number				
--	2SA1179/N	2SA1037K	2SA1037AK	2SC2812/N	2SC2412K
AJ	M6, M7	R, S	R, S		
AH				L6, L7	R, S

Schematic Diagrams



CAUTION
Fuse of the specified parts number must be used.
Unauthorized substitutions may result in fire or accident.

CAUTION

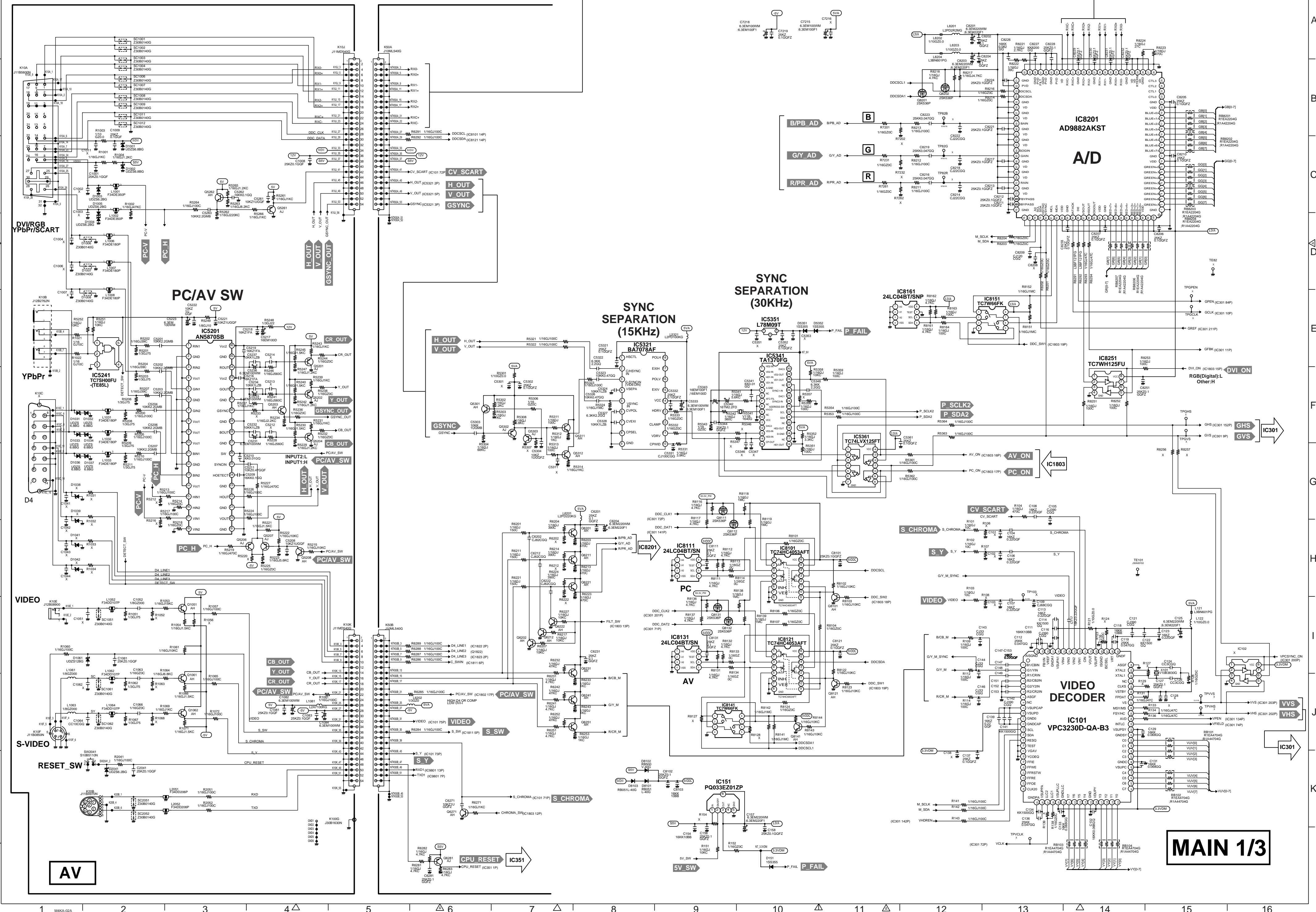
Components indicated by a mark  in this schematic diagram designate components in which safety can be of special significance. It is, therefore, particularly recommended that the replacement of these parts must be made by exactly the same parts.

This projector is isolated from AC line by using the internal converter transformer.

Please pay attention to the following notes in servicing.

- ① Do not touch the part on hot side (primary circuit) or both parts on hot and cold sides (secondary circuit) at the same time.
- ② Do not shorten the circuit between hot and cold sides.
- ③ The grounding lead must be connected to the ground of the same circuit when measuring of voltages and waveforms.

A
B
C
D
E
F
G
H
I
J
K
L



MAIN 1/3

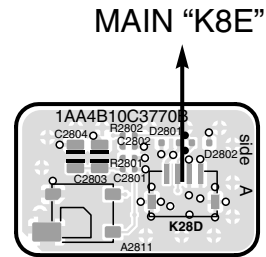
A
B
C
D
E
F
G
H
I
J
K
L



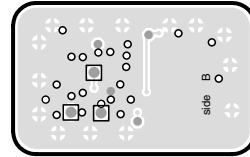
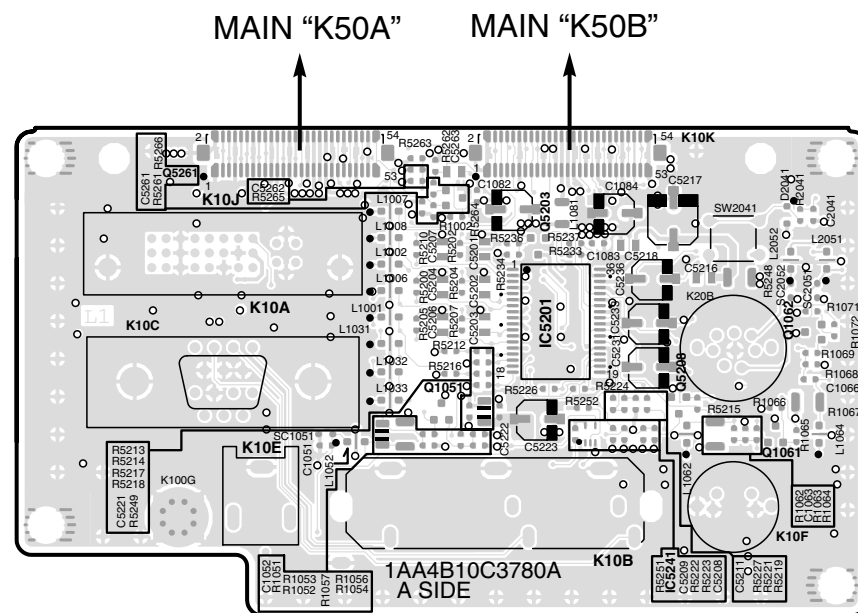


■ Printed Wiring Board Diagrams

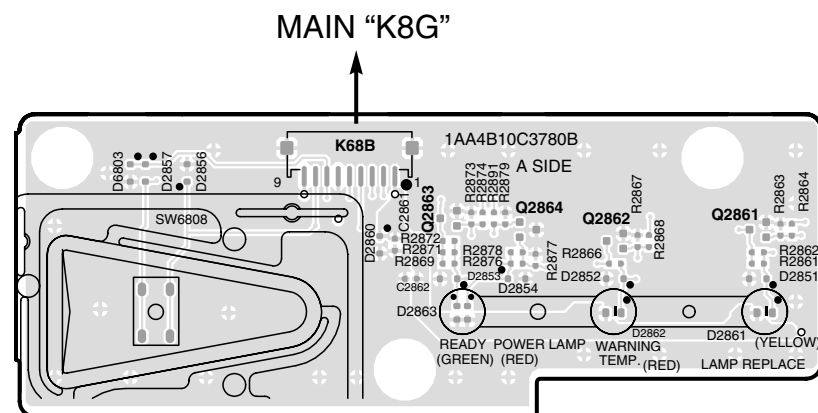
R/C (SIDE:A)



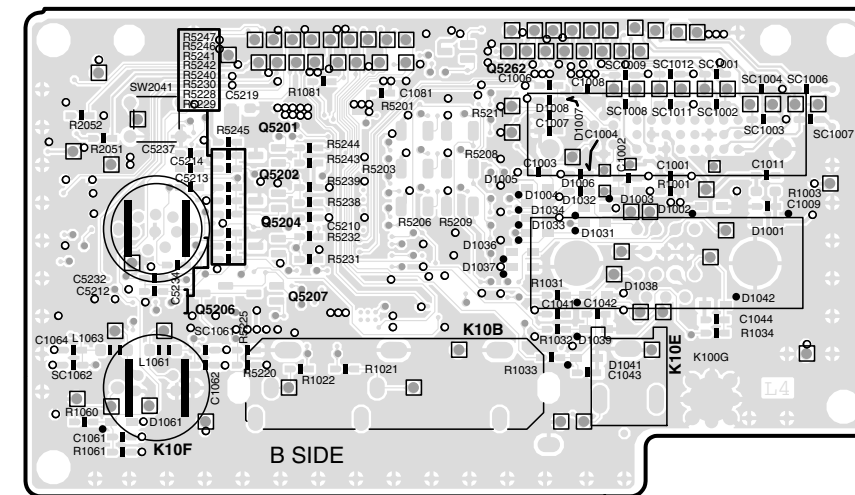
R/C (SIDE:B)

**AV (SIDE:A)**

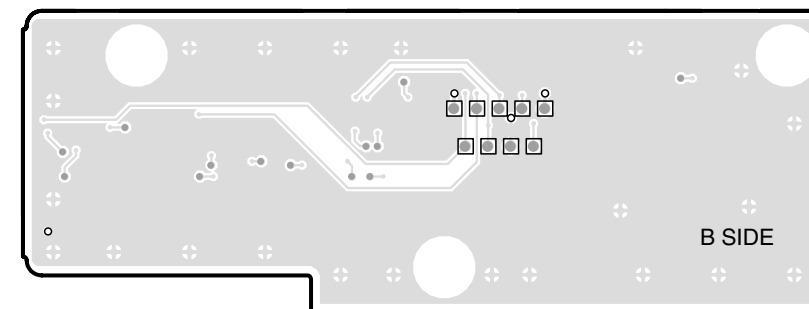
LED (SIDE:A)



AV (SIDE:B)

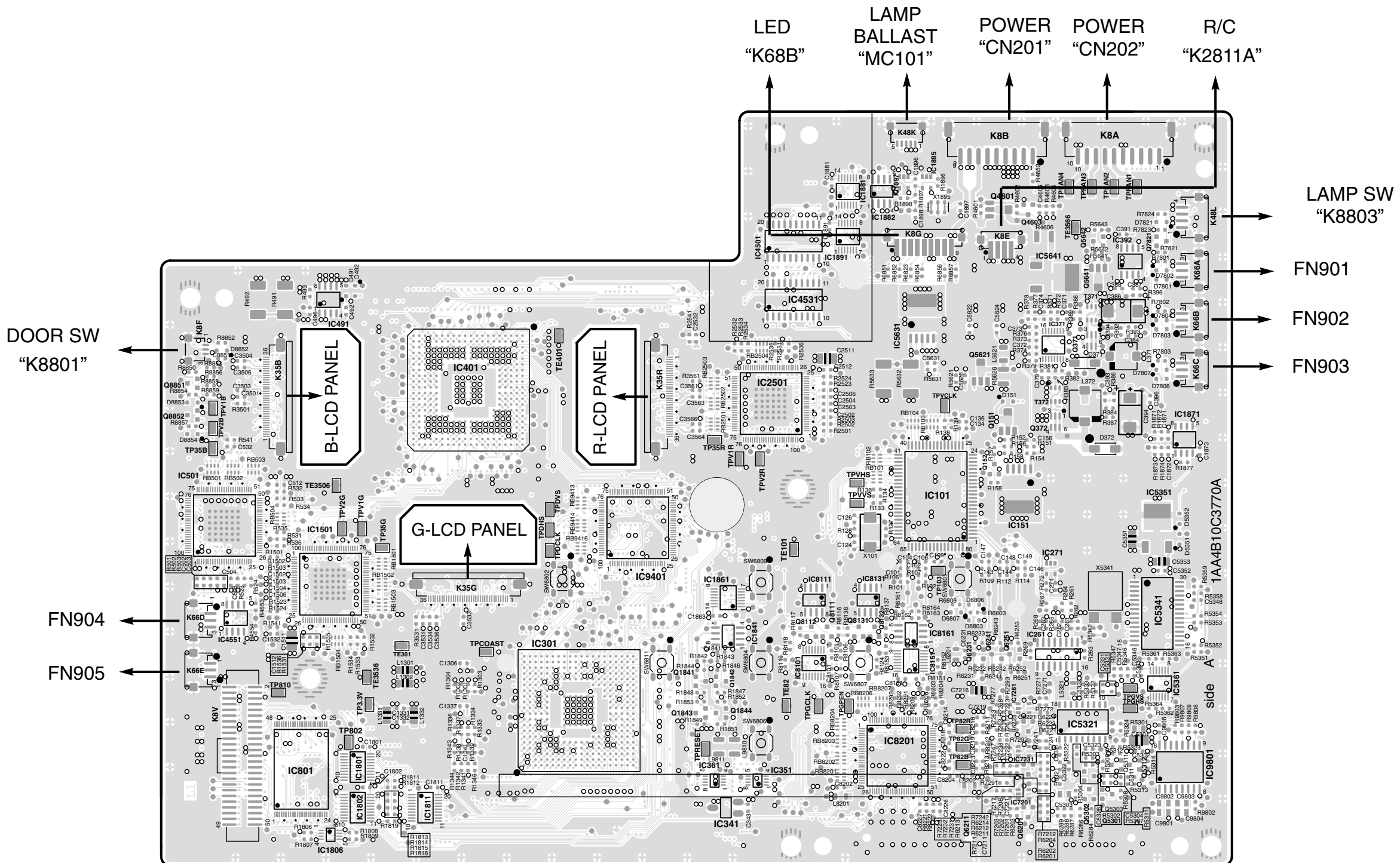


LED (SIDE:B)

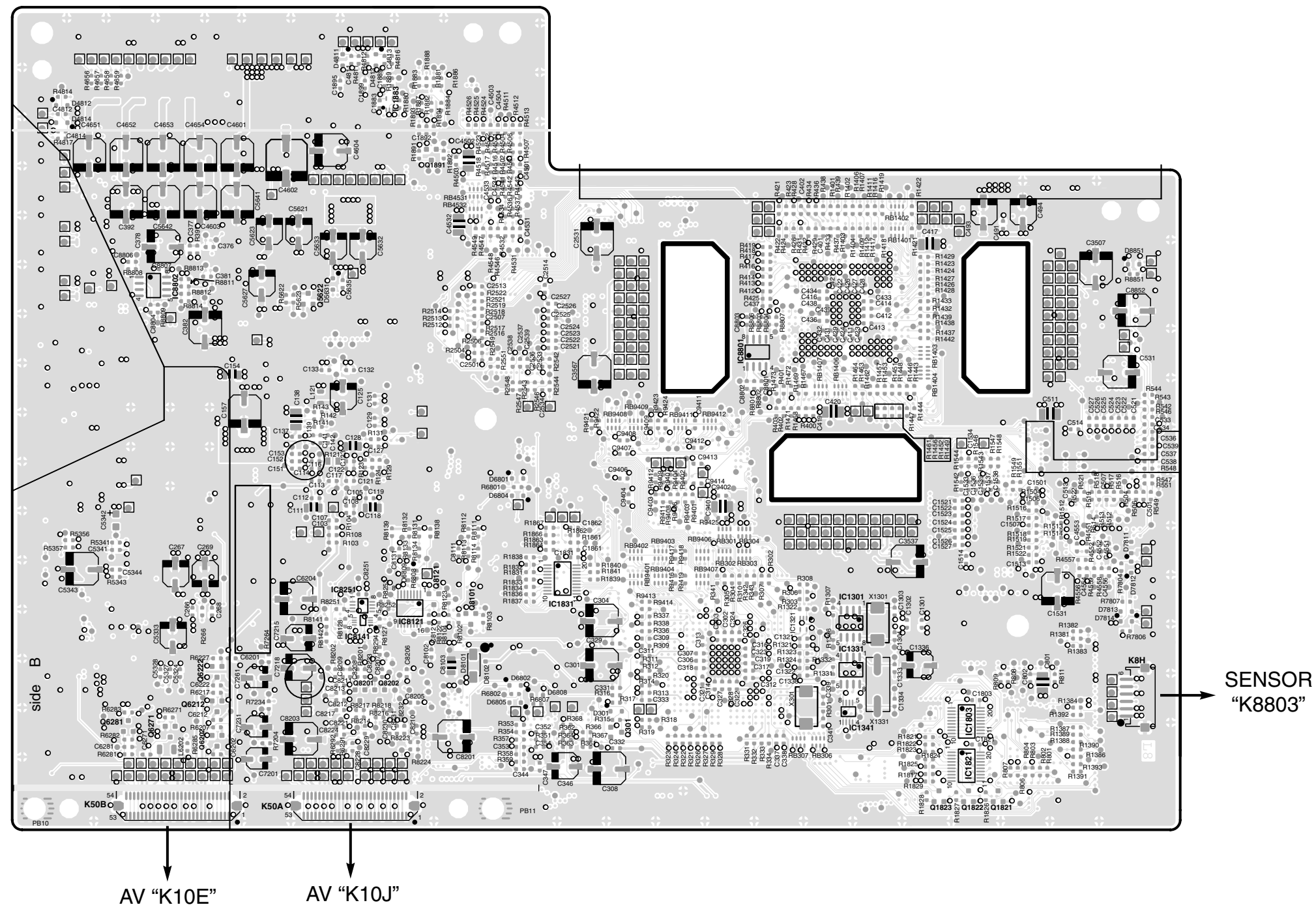


This projector is isolated from AC line by using the internal converter transformer. Please pay attention to the following notes in servicing

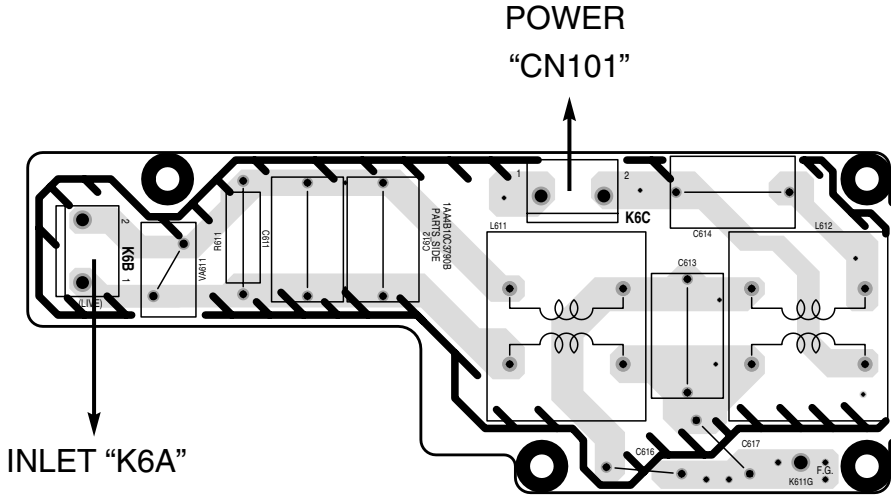
1. Do not touch the part on hot side (primary circuit) or both parts on hot and cold sides (secondary circuit) at the same time.
2. Do not shorten the circuit between hot and cold sides.
3. The grounding lead must be connected to the ground of the same circuit when measuring of voltages and waveforms.



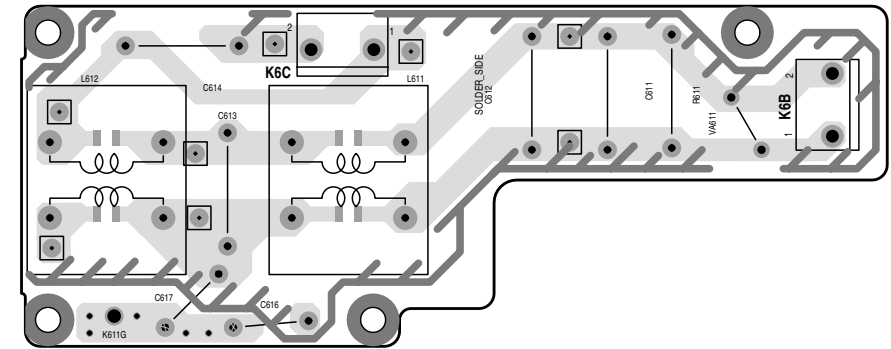
MAIN (SIDE:B)



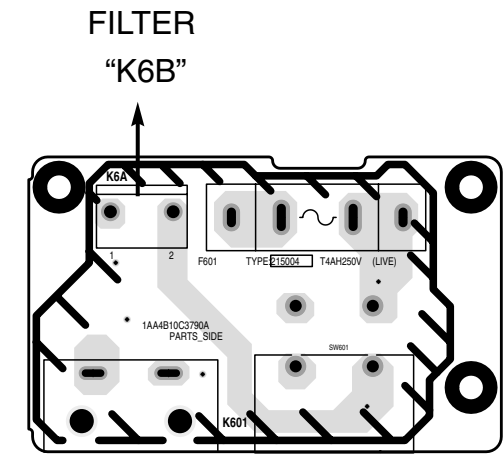
FILTER (SIDE:A)



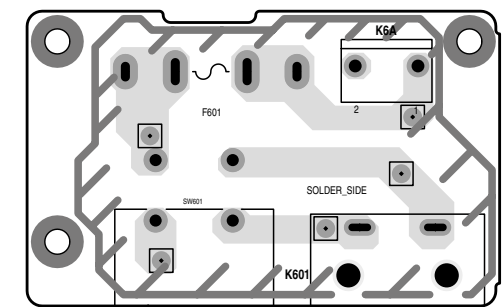
FILTER (SIDE:B)



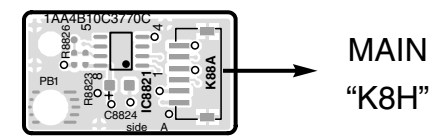
INLET (SIDE:A)



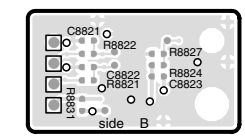
INLET (SIDE:B)



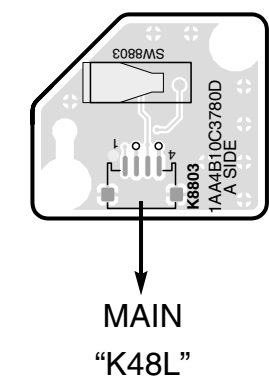
SENSOR (SIDE:A)



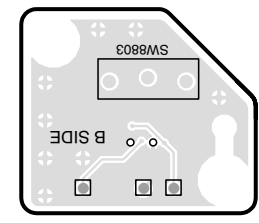
SENSOR (SIDE:B)



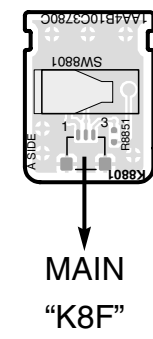
LAMP SW (SIDE:A)



LAMP SW (SIDE:B)



DOOR SW (SIDE:A)



DOOR SW (SIDE:B)

